

NORTON

SAINT-GOBAIN®

EFFECTIVE 2017

CATALOG #7364

ABRASIVE SOLUTIONS FOR THE
**WELDING
AND METAL
FABRICATION
MARKET**

AHB

TOOLING & MACHINERY, INC.

COMPLETE METALWORKING SOLUTIONS

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BECAUSE **RIGHT CHOICES** MATTER™


SAINT-GOBAIN

ROUGH GRINDING



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PRECISION OFFHAND/ PORTABLE



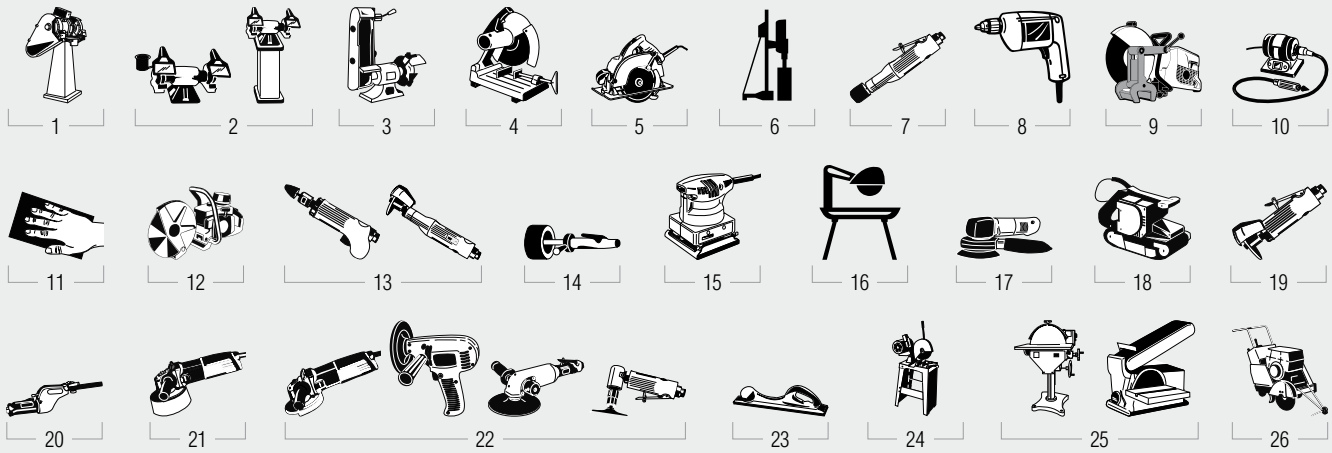
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NON-WOVEN ABRASIVES QUICK-CHANGE DISCS

Norton and Merit non-woven quick-change discs are a combination of strong synthetic mesh and quality abrasives, bonded together by a smear-resistant adhesive. The open construction of the non-woven material enables aggressive cutting action and improved surface finish while maintaining its non-loading feature.

A Applications: Medium-light stock removal, beveling, deburring/deflashing, rust removal, blending, cleaning and finishing, polishing, and decorative finishing

B Size Range: 3/4" - 8" diameter

C Grit Range: X-Coarse, Coarse, Medium, Fine, Very Fine, Super Fine

D Abrasive Grain: Ceramic Alumina, Engineered Aluminum Oxide, Aluminum Oxide, Silicon Carbide

E Attachment: Quick-Change Type TR (Type II), Type TS (Type I), and Type TP (Type I)

F Back-up Pad: Rubber with hardness variations for different applications

G Machine Used: [Images of various machines]

QUICK-CHANGE ATTACHMENT SYSTEMS AND CROSS REFERENCE GUIDE

Each system enables quick, tool-free, safe disc changes, reducing downtime and operating expenses.

Type TS (Type I)	Type TR (Type II)	Type TP (Type I)
• Features a turn-on/turn-off style fastener	• Features a roll-on/roll-off style fastener	• Features a snap-on/snap-off style fastener
• Fastener is made of metal	• Fastener is made of plastic	• Fastener is made of nylon
• Equivalent to Standard Abrasives SocAbr® locking system	• Equivalent to 3M™ Roloc™ fastening system	

NORTON	TS	TR	TP
3M	Roloc TS/TSM	Roloc TR	Roloc TP
Standard	TS (SocAbr)	TR (LockIt)	TP (ClickOn)
Superior	Type S	Type R	Type P
Arc	Type S	Type R	
Pierd	Type CD	Type GDR	
Salt	SALT-LOK	SALT-LOK-R	
Carroll	Turn On	Roll On	
Klingspor	DMC	DFC	
Garryson	Type S	Type R	

APPLICATION/GRIT RECOMMENDATION GUIDE

	MOST AGGRESSIVE					LEAST AGGRESSIVE
NORTON	Rapid Strip	Vortex Rapid Blend	Vortex Rapid Prep	Rapid Prep		HS Buffing, Buffing
MERIT	Best Choice	Second Choice	Best Choice	Best Choice		
Scale Removal	Best Choice	Second Choice	Best Choice	Best Choice		
Stock Removal	Best Choice	Second Choice	Best Choice	Best Choice		
Heavy Deburring	Best Choice	Second Choice	Best Choice	Best Choice		
Light Deburring	Best Choice	Second Choice	Best Choice	Best Choice		
Light Finishing	Best Choice	Second Choice	Best Choice	Best Choice		
Bleeding	Best Choice	Second Choice	Best Choice	Best Choice		
Cleaning	Best Choice	Second Choice	Best Choice	Best Choice		
Finishing	Best Choice	Second Choice	Best Choice	Best Choice		

Easy to Follow Page Guide Key Questions to Simplify Product Selection

Am I in the Right Section?

- A** Product
- B** Category overview
- C** General attributes
- D** Correct machine use

How Do I Narrow my Choices?

- E** Product design variations

How Do I Match My End-User Needs?

- F** Application recommendations
- G** Best / Better / Good performance color coding
- H** Full application / grit guide

How Do I Match or Upgrade from a Competitive Product?

- I** Cross reference guide

NON-WOVEN ABRASIVES FLAP DISCS

MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

	BEST Highest Productivity - Lowest Total Cost	BETTER Excellent Blend of Performance & Price	GOOD Consistent Performance - Low Initial Price
TYPE 29 FOR STOCK REMOVAL Stainless Steel / Titanium / Super Alloys Mild Carbon Steel / Welds Ferrous Metals / Cast Iron Brass / Bronze / Aluminum	Norton Blaze R80P Norton Red Heat R983 Norton Red Heat R983	Norton BlueFire R884P Norton BlueFire R884P Norton BlueFire R884P Norton BlueFire R884P	Norton Metal R828 Norton Metal R828 Norton Metal R828
TYPE 27 FOR BLENDING AND FINISHING Stainless Steel / Titanium / Super Alloys Mild Carbon Steel / Welds Ferrous Metals / Cast Iron Brass / Bronze / Aluminum	Norton Blaze R80P Norton Red Heat R983 Norton Red Heat R983	Norton BlueFire R884P Norton BlueFire R884P Norton BlueFire R884P	Norton Metal R828 Norton Metal R828 Norton Metal R828 Norton Metal R828

APPLICATION/GRIT RECOMMENDATION GUIDE

	COARSER (GRINDING)					FINER (FINISHING)
24	36	40	50	60	80	100
Heavy Stock Removal		Edge Chamfering/Beveling Weld Blending		Deburring/Deflashing		Rust Removal/Blending
						Cleaning and Finishing

CROSS REFERENCE GUIDE

	TOTAL PERFORMANCE			INITIAL PRICE
	BEST	BETTER	GOOD	
NORTON	Blaze R80P	Red Heat R983	BlueFire R884P	Norton Metal R828
3M	Cebitron II 967A, 947D	747D	563D, 546D	-
DeWalt	-	-	-	Z/A
Carroll	-	C3	Z-Stainless	Z3
Flexwilt	-	-	-	Zircotec Premium, Zircotec HP
Garryson	-	-	Zirc, Zirconium	-
GenTex	-	Ceramic	Zirconia	-
Hormes	-	-	-	-
Klingspor	SMT 996	-	SMT 630	SMT 618, 619, 624, 626, 627, 628, 640
Metabo	-	-	-	Z/A
Pard	Red Line CB	Stainless Max	Zirconia Premium, TuffMax	Z/A Silver Line
Pierd	00-Cool	Ceramic	Cool Zirconia, 00-000L	Zirconia
Salt	-	-	-	Z/A
SIA	-	-	-	-
Standard	-	Ceramic Oxide	Zirconia Pro	Zirconia
Tyrolit	-	-	-	Z/A
Walter	Enduro-Flex Stainless	-	Enduro Flex	-
Weiler	-	Saber Tooth Ceramic	-	Tiger Zirconium, Vortec

When You Want Fast and Tough, You Want Norton
Whether you want maximum productivity or simply the lowest initial cost solution, Norton products are the solution for all your right angle grinding and blending applications.

G Norton Blaze Highest Productivity - Lowest Total Cost	BETTER Norton BlueFire Exceptional Blend of Performance and Price	GOOD Norton Metal Good Performance - Low Initial Price
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Full Line Industrial Market | www.nortonabrasives.com

What are the Leading Products by Tier?

J Tiers by color-coding: Best, Better, Good

K Features and benefits

L New, improved, and/or expanded offering



COATED ABRASIVES
FLAP DISCS

NORTON BLAZE R980P CERAMIC ALUMINA

BEST HIGHEST PRODUCTIVITY FOR STAINLESS STEEL, TITANIUM, AND SUPER-ALLOYS

FEATURES & BENEFITS

- Latest-generation ceramic alumina abrasive grain lasts 50% - 200% longer than any flap discs on stainless steel, cobalt, chrome, Inconel, titanium and other hard-to-grind materials
- Y-weight polyester flaps with a superior grinding aid significantly improve life, grain retention, and fray resistance while providing a cool, noticeably fast cut rate
- High-strength fiberglass back on Type 29 and Type 27 High Density is durable, lightweight, and absorbs vibration
- Black flexible plastic backing plate on Type 27 Quick Trim is the industry standard for trimmability
- 2" and 3" quick-change mini flap discs are ideal for tight spaces



NORTON RED HEAT R983 CERAMIC ALUMINA

BEST HIGH PRODUCTIVITY FOR MILD CARBON STEEL, CAST IRON, AND REMOUP METALS

FEATURES & BENEFITS

- Our exclusive premium ceramic alumina abrasive blend cuts faster and outlasts aluminum oxide and zirconia abrasives in most applications.
- New, thicker, Y-weight engineered backing provides extended durability and reduced edge wear
- Advanced self-lubricating grain treatment reduces heat on hard-to-grind materials
- Trimmable Type 27 plastic backing discs are engineered for finishing
- Type 29 conical fiberglass backing flap discs excel at aggressive stock removal
- Type 29 fiberglass high-density flap discs last 40% longer than standard density flap discs on contoured surfaces



NORTON BLUEFIRE R884P ZIRCONIA ALUMINA

BETTER CHOICE FOR MILD CARBON STEEL, AND WELDS

FEATURES & BENEFITS

- High performance zirconia alumina plus abrasive for aggressive cut and long life, with up to 30% longer life than competitive zirconia alumina products
- Polyester flaps with semi-open coat provide improved durability and resists loading on aluminum
- High-strength fiberglass back on Type 29 and Type 27 High Density is durable, lightweight, and absorbs vibration
- Blue, flexible plastic backing plate on Type 27 Quick Trim is the industry standard for trimmability
- Vendible 2-disc package is ideal for vending machines, small jobs, or carrying to a job site
- 2" and 3" quick-change mini flap discs are ideal for tight spaces




NORTON METAL R828 ZIRCONIA ALUMINA

GOOD CONSISTENT PERFORMANCE WITH LOW INITIAL PRICE

FEATURES & BENEFITS

- Durable zirconia alumina abrasive provides good cut rate and life with consistent finish



COATED ABRASIVES
FIBER DISCS

SIZE (D x H)	UNIT	TIER					
		BLAZE F980	RED HEAT F981	RED HEAT F981S	BLUEFIRE F828P	METAL F240	
		Alumina Ceramic Alumina Superfine	Ceramic Alumina	Ceramic Alumina Superfine	Zirconia Alumina Blend	Aluminum Oxide	
4 x 5/8	24	25				05385 10595	
	36	25				05386 10594	
	50	25				05388 10593	
	60	25				05384 10592	
	80	25				05385 10591	
4-1/2 x 7/8	24	25	06957398009	77696008400	77696008452	06261138457	0622353009
	36	25	06957398001	77696008401	77696000455	06261138456	06223533005
	36	50 V				0622377276	
	50	25	09957398002	77696008402	77696008445	06261138454	06223532810
	60	25	09957398003	77696008403	77696008457	06261138453	0622353111
	60	50 V				0622377278	
	80	25	09957398004	77696008404	77696008470	06261138452	06223533012
	80	50 V				0622377277	
	100	25		77696008405			06223532813
	120	25	06204425352	77696008406			06223532814
5 x 7/8	18	25					05385 10684
	24	25	06957398005	77696008407	77696008480	06261138663	06223532776
	36	25	06957398006	77696008412	77696008491	06261138662	06223532777
	36	50 V				0622377285	
	50	25	06957398007	77696008413	77696008452	06261138661	06223532778
	60	25	06957398008	77696008414	77696008453	06261138660	06223532779
	60	50 V				0622377285	
	80	25	09957398009	77696008422	77696008454	06261138660	06223532789
	100	25		77696008423			06223532781
	120	25	06254409604	77696008425			06223532782
6 x 7/8	24	25	06261160053				
	36	25	06261160054				
	50	25	06261160055				
	60	25	06261160056				
	80	25	06261160057				
7 x 7/8	18	25					05385 10683
	24	25	09957398010	77696070018	77696010009	06261138664	06223532823
	36	25	09957398011	77696008429	77696070008	06261138663	06223532824
	36	50 V				0622377287	
	50	25	09957398012	77696008430	77696010006	06261138662	06223532825
	50	50 V				0622377286	
	60	25	09957398013	77696008431	77696010005	06261138661	06223532789
	80	25	06957398016	77696008440	77696070012	06261138660	06223532797
	100	25	06957398017	77696008433	77696070011	06261138659	06223532788
	120	25	06254411552	77696008436			06223532789
8-1/2 x 7/8	24	25	09957398015	77696008437	77696010012	06261138664	05385 10702
	36	25	06957398016	77696008440	77696070013	06261138663	06223532791
	50	25	06957398017	77696008444	77696010011	06261138662	
	60	25		77696008449			05385 10594
	80	25		77696008452			
100	25		77696008453				

Note: Fiber discs must be used with back-up plastic discs on the left edge of flap sections.
V = Vendible Package, ideal for vending machines and small jobs. 10 discs/package, 5 packages per standard carton. Order in multiples of 50.

How Do I Find What I Want Now That I Know What I Want?

M Visual identification

N Key product attributes

O Full specification and product number

when the going gets rough **RELY ON NORTON INNOVATION**

For stock removal, rough blending, cleaning castings and welds...Norton depressed center and portable snagging wheels are constructed to tackle the demanding work of all material types.



Choose a Quantum Leap in Technology

Maximum operator comfort – less cutting vibration means reduced hand fatigue. Sharper wheel for fastest cutting action; highest metal removal rate, less pressure, and longest life – for highest productivity.



Performance on Fire

Engineered with a proprietary zirconia grain upgrade, the Norton BlueFire design offers faster removal rate, longer product life, and increased productivity for better performance value.




Conquering Your Toughest Jobs

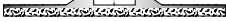


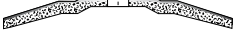

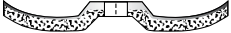

From foundry, welding, metal fabrication, steel mill to shipyard, master imperfection removal, cleaning, and beveling jobs with our line of strong, aggressive snagging products.



Depressed center wheels may also be referred to as raised hub wheels or by their shape designation of "Type", with Type 27 being the most popular. The depressed center design allows the flange/lock nut to recess within the wheel so that it can be used for various grinding and cutting applications. Depressed center wheels are designed to handle the most severe right angle grinding applications from heavy stock removal to rough blending. More recently, depressed center wheels have been designed to increase the utility of the tool for cut-off applications. While large right angle grinders (7" & 9") have been around for many years, small or mini grinders that handle 4", 4-1/2", 5", and 6" wheels have made this machine, and wheel category, the most popular in power tools.

Applications: Grinding, stock removal, edge chamfering, beveling, weld blending, and cutting-off
 Size Range: 2" – 9"
 Thickness Range: .040 – 1/4"
 Grit Range: 24 – 46 grits for stock removal;
 60, 80 grits for blending and finishing
 Abrasive Grain: Ceramic Alumina, Diamond, Zirconia Alumina, Aluminum Oxide, Silicon Carbide
 Mounting Options: Plain hole (3/8", 5/8" and 7/8") and discard mount (5/8"-11)
 Shape: Type 27, Type 28, Type 29
 Machine Used: 

TYPE-TO-APPLICATION RECOMMENDATION GUIDE

Wheel Type/Thickness	Applications		
TYPE 27 	Type 27 wheels are essentially straight wheels that have a "depressed center/ raised hub". Different types of fiberglass reinforcement mesh give the product stability for use on the periphery, on the face, or a combination of the two.	 	90° ANGLE 30° ANGLE
.040", .045", and 1/16" Type 27/42 RightCut	Cutting only, where fast cutting and low kerf loss are desired	■	
3/32" and .125" Type 27/42	For tough cutting and notching applications where stability is important; cutting and cleaning burr-free narrow root pass welds	■	
1/8" Type 27	For multiple applications ranging from cutting-off, notching and light-duty side grinding	■	■
1/8" Pipe Notcher Type 27	2-1/2 pieces of reinforcement; durable face grinding; root pass grinding without removing pipe material	■	■
1/8" Type 27 Flexible	For light stock/blending/finishing/polishing		■
.140" and 1/8" Type 27 Foundry Notchers	Triple-reinforced for grinding steel and dirty/scale-covered castings; removing and cleaning gates and risers	■	■
1/4" Type 27	For light- to heavy-duty grinding on the bottom/face of the wheel		■
1/4" Type 27 Foundry Snaggers	Designed for cleaning parting lines, pads and slag		■
1/4" Type 27 Heavy-Duty Foundry	Triple-reinforced for the most aggressive foundry applications		■
TYPE 28 	Type 28 wheels are constructed with a downward angle built into the grinding section to facilitate a flatter grinding angle. These wheels can only be used on the face and never on the periphery for cutting-off.		 15° ANGLE
1/4" Type 28 Saucers	Smooth, gouge-free grinding at shallow angles		■
TYPE 29 	Type 29 wheels are constructed with an upward angle built into the grinding section to provide full face contact for light stock removal and blending operations. These wheels can only be used on the face and never on the periphery for cutting-off.		 15° ANGLE
1/8" Type 29 Flexible, AVOS	Polishing and blending applications		■

MATERIAL/APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

	BEST Highest Productivity; Lowest Total Cost	BETTER Excellent Blend of Performance & price	GOOD Consistent Performance; Low Initial Price
CUTTING			
Mild Carbon / High Tensile Steel	Norton NorZon Plus	Norton BlueFire	Norton Gemini / Norton Metal
Stainless Steel / Alloys	Norton NorZon Plus	Norton BlueFire	Norton Gemini INOX/SS / Norton Metal
Contaminate Free		Norton BlueFire FC/INOX/SS	Norton Gemini INOX/SS
Cast Iron	Norton NorZon Plus		Norton Gemini
Gray Iron			
Aluminum / Bronze / Brass			Norton Gemini Aluminum
Asphalt / Brick / Concrete			Norton Masonry
Fiberglass / Plastic			Norton Masonry
NOTCHING			
Mild Carbon / High Tensile Steel	Norton NorZon Plus	Norton BlueFire	Norton Gemini / Norton Metal
Stainless Steel / Alloys	Norton NorZon Plus	Norton BlueFire	Norton Gemini INOX/SS
Contaminate Free		Norton BlueFire FC/INOX/SS	Norton Gemini INOX/SS
Cast Iron	Norton NorZon Plus	Norton BlueFire Foundry	Norton Gemini
GRINDING			
Mild Carbon / High Tensile Steel	Norton Quantum3/NorZon Plus	Norton BlueFire	Norton Gemini / Norton Metal
Stainless Steel / Alloys	Norton Quantum3	Norton BlueFire INOX/SS	Norton Gemini INOX/SS
Contaminate Free	Norton Quantum3	Norton BlueFire FC/INOX/SS	Norton Gemini INOX/SS
Cast Iron	Norton NorZon Plus	Norton BlueFire Foundry	Norton Gemini
Gray Iron	Norton Quantum3	Norton BlueFire Foundry	Norton Gemini
Aluminum / Bronze / Brass			Norton Gemini Aluminum
Asphalt / Brick / Concrete			Norton Masonry
BLENDING			
Mild Carbon / High Tensile Steel			Norton Gemini Flexible
Stainless Steel / Alloys			Norton Gemini Flexible
Aluminum / Bronze / Brass			Norton Gemini Flexible
Fiberglass / Plastic			Norton Gemini Flexible

Typical Steel, Stainless Steel, Cast Iron Products: Angle Iron, Bar Stock, Ductile Pipe, Channel Iron, Decking, Rebar, I-Beams, Rail Steel, Studs, Tubing, and Welds

HOW TO PICK THE RIGHT BOND TYPE

Standard	Unmarked	Where an excellent blend of cut rate and life is needed
Fast Cut	FC	Where fast stock removal is needed, or the application only allows for low-pressure or under-horsepowered grinders
Long Life	LL	Where durability is needed due to severe application, and when horsepower of the grinder allows for heavy pressure
Contaminate Free	INOX/SS	Contain <0.1% iron, sulfur or chlorine for rust-free and corrosion-free results. Will not contaminate stainless steel

HOW TO PICK THE RIGHT MOUNT

Most wheel sizes come with a plain hole or a discard mount option. While the plain hole has a small, initial cost advantage, the discard mount can provide a labor cost advantage with the quicker wheel change.

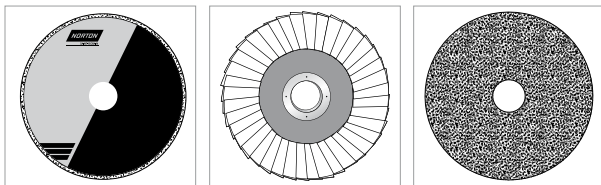


Mini-Mount Hub

Our unique, patented mini-mount hub used on 4-1/2" and 5" depressed center wheels provides up to 30% more wheel life because the hub covers just a small surface area, providing maximum grinding area exposure and usage.

Standard throw-away hub size

WHY CHOOSE DEPRESSED CENTER WHEELS?



Depressed Center Wheels vs. Flap Discs or Fiber Discs

- Up to 5X life over flap discs, less downtime and inventory
- Up to 100X life over fiber discs, less downtime and inventory
- Rigidity for severe operations and high power grinders
- 1/8" wheels can be used for cutting and grinding
- Can be used to grind inside corners at outer edge of wheel

CROSS REFERENCE GUIDES

Type 27/42 RightCut – .040" - 1/16"

NORTON	TOTAL PERFORMANCE			INITIAL PRICE			SPECIALITY
	BEST	BETTER	GOOD				GOOD
	NorZon Plus	BlueFire	Gemini INOX/SS	Gemini Long Life	Gemini	Metal	Gemini Aluminum
Brilliant	—	—	—	Brill-Blade Heavy Duty	Brill-Blade Extra FC	Hornet	—
Bullard	—	ZA60T	—	TA46T, TA60T TA60U	SGA60U	A46T, A60T Comp.	AL46N
Camel	—	ZA Quickie Cut	A60-T-BF, WA60R Quickie Cut	Super Quickie Cut	A36-S-BF	—	A46 Quickie Cut
Flexovit	—	—	—	Razorblade A60SST	Razorblade A24T, 30V, 36T	—	—
Pearl	—	Redline Max Slimcut	—	Slimcut	—	Slimcut Pro-V, Silverline	—
Pferd	—	SGP-ZA-Q-INOX	SG-A-R-INOX, SGP-A-S-INOX	SG-A-S, SGP-A-T	—	PSF-A-P	S-G-N-ALU
Sait	—	Z-tech	XA46R	—	A60S, Saitech	SAIT.M.X	A46N
Spedecut	—	—	—	—	—	A46, 60 TBXX	—
Walter	—	—	A-60SS-ZIP	—	A-60-ZIP, A-30-ZIP	—	A-60-ZIP-ALU

Type 27 and 28 – 1/8" and 1/4"

NORTON	TOTAL PERFORMANCE					INITIAL PRICE					SPECIALITY		
	BEST		BETTER	GOOD							BETTER	GOOD	
	Quantum3	NorZon Plus LL	NorZon Plus	BlueFire	BlueFire FC/INOX/SS	Gemini XXL	Gemini	Gemini Fast Cut	Gemini SS	Metal	BlueFire Foundry	Gemini ALU	Masonry
3M	Cubitron II	—	—	—	—	High Perform., Green Corps	—	—	—	—	—	—	—
Arc	—	—	—	—	—	—	Predator A24R	—	—	—	—	—	—
Brilliant	—	—	—	—	Brill-Max Z24R	—	Brill-Tex A24UHPXL, A30T	Brill-Tex A24R Super-G	Brill-Tex A30P	Hornet Metal	—	Brill-Tex 30ALU	Brill-Tex C30P, Hornet Concrete
Bullard	—	—	TA24S	ZA24R Competitor	ZA24R	—	A24R	A24N	A46Q	A24R Competitor	—	AL36N	C24R
Camel	—	—	—	—	ZA24T	—	A24R	Ultra A24-N-BF, A24T Super Quickie Cut	WA24S	A24N, R&T Fast Cut	—	*A30N, Fast Cut*	C24R
DeWalt	—	XP Ceramic	XP	—	—	HP	—	—	HP SS	Metal	—	—	—
Flexovit	—	Flexon ZA24P ZA30T	Flexon ZA20Q	Metalhog, AXT24S	—	—	High Perform. A24/30T	High Performance A30S, Specialist A30Q & R	Free Grind A30Q	—	Flexon ZA16U	Specialist A24ALU	High Perform. C24/30P
Metabo	M-Calibur	—	—	ZA24T	—	—	A24R & T	A24N	A360	—	—	A36M	C24N
Pearl	—	—	—	—	Z24T	—	Premium Metal A24S, Redline Max A/WA24S	Premium Metal A24R, Redline Max A/WA24R	WA24R, SRT24	Silver Line A24R & S	—	D.A. Series AL24M	Silver Line C24S
Pferd	SG-Elastic Ceramic C024Q	—	—	ZA SGP, ZA T SGP	ZA R SGP, Z-SG	SG-Elastic	A-PS, A-SG	—	A-SG INOX, A-PS INOX	—	—	A-SG ALU	S-SG, Masonry
Sait	The Ultimate Grind	Saitech Ultimate Perform.	Saitech Attacker, Pipeline	Z24R Z-Tech	Stainless	—	A24R, A24Turbo	A24N	XA24Q	A24T	CA24R - Foundry	A46N-ALU	C24N
Tyrolit	—	—	—	ZA24P-BFX	ZA24N-BFX	—	A30S & Q-BFX	A30R-BFX	A30-BF INOX	A30-BF	ZZA24R-BFX	A36N-BFX WA46-BF	C30-BF
Walter	—	—	—	Allsteel XX	Double-X	Allsteel	HP	—	Stainless	—	—	—	—
Weiler	—	—	—	Tiger Zirc	Tiger Inox	Tiger LL	Wolverine A24R	—	—	Wolverine A24N	—	—	—

Type 27 – Flexible 1/8"

NORTON	GOOD	NORTON	GOOD	NORTON	GOOD
Brilliant	Gemini Flexible Brill-Flex	Flexovit	Gemini Flexible Flexcel	Pferd	Gemini Flexible SG-Flex
Bullard	Flexlite AC	Metabo	Z-Plus	Sait	Challenger II
Camel	FGF, Special Wheel	Pearl	Flexible AC	Walter	Flexcut

DEPRESSED CENTER WHEELS

NORTON QUANTUM3 CERAMIC ALUMINA

BEST CHOICE FOR STAINLESS AND CARBON STEEL APPLICATIONS; EFFICIENTLY GRINDS AND CUTS A VARIETY OF MATERIALS FROM ALLOYS TO GRAY IRON

FEATURES & BENEFITS

- 5X–6X the life of aluminum oxide wheels and up to 100 percent increase in performance and life over competitive ceramic alumina wheels from our proprietary formulation of next-generation, uniquely-shaped, 100% ceramic alumina abrasive grain and tough new bond system
- Fastest metal removal rates, with less pressure (because of more uniform grain distribution and adhesion) significantly increase production, for the lowest total grinding cost of any wheel in the market place today
- Better operator control, improved comfort, and exceptional finished part quality with a more robust, sharper, yet smoother cutting action; wheels don't grab or dig
- Contaminate-free with <0.1% iron, sulfur or chlorine for rust-free results.

NORTON NORZON PLUS C/A AND Z/A BLEND

BEST/HIGH PRODUCTIVITY FOR STEEL, STAINLESS STEEL AND ALL OTHER FERROUS METALS

FEATURES

- Combination of Norton SG ceramic alumina and NorZon (zirconia alumina) with an advanced bond system
- The original All Purpose – lowest total cost and best overall value
- Long Life – longest lasting
- Foundry Snagger
- RightCut wheels for cutting only

BENEFITS

- 50 to 200% better overall performance versus competitive zirconia and ceramic wheels
- Lowest total grinding cost; highest productivity for ceramic/zirconia blended wheels
- Up to 10X the performance of aluminum oxide wheels
- Easy on the operator and equipment
- Best option when the best combination of life, cut rate, and lowest heat generation is primary concern, and able to measure total cost
- Best option when longest possible life is primary concern, rough grinding conditions require wheel durability, using high cycle, high horsepower grinders and lower labor cost are key
- Designed to withstand the most aggressive foundry application
- Noticeably longer life and faster cut rate versus competitive wheels
- Less pressure required for first cut

NORTON BLUEFIRE Z/A AND A/O BLEND

BETTER CHOICE FOR STAINLESS STEEL, CARBON STEEL, ALLOYS AND GRAY IRON

FEATURES

- A blend of R&D advanced chemistry and shaped zirconia alumina abrasive and premium aluminum oxide grain
- Contaminate-free BlueFire FC (FastCut/Inox/SS)
- BlueFire Foundry
- IMPROVED PERFORMANCE! RightCut wheels for cutting only

BENEFITS

- 2-3 times the life of aluminum oxide wheels
- Broad utility from light-to heavy-pressure applications, on a wide range of materials
- Excellent performance-to-price ratio for lower total grinding costs
- Contain <0.1% iron, sulfur, or chlorine for rust-free and corrosion-free results; will not contaminate stainless steel
- Zirconia alumina/silicon carbide abrasive blend and an exceptionally strong reinforcement structure
- Versatile choice for aggressive, foundry applications
- Over 50% more life; the true choice for broad versatility and better value, to lower production costs.
- Less pressure required for first cut

DEPRESSED CENTER WHEELS

NORTON GEMINI ALUMINUM OXIDE

GOOD CHOICE FOR STEEL AND FERROUS METALS AS WELL AS SPECIALTY APPLICATIONS IN ALUMINUM AND FOUNDRIES



FEATURES

- Quality aluminum oxide
- Gemini Contaminate Free INOX/SS
- 1/8" and 1/4" thick Gemini XXL grinding wheels
- .040 and .045 ultra-thin Gemini RightCut wheels for cutting only
- Gemini Aluminum wheels

BENEFITS

- Consistent performance at a competitive price
- Contain <0.1% iron, sulphur or chlorine for rust-free and corrosion-free results; will not contaminate stainless steel
- Fastest 100% aluminum oxide grinding wheels in the market today
- 50% more life and metal removal than standard aluminum oxide wheels
- Best on hard-grade carbon steel applications, weld repairs, flashing, and any job that requires a quick turnaround
- Precise cutting; very stable, with a narrow pass
- Up to 70% longer life and 20% faster cut rate than standard aluminum oxide wheels – for substantial savings
- Require less pressure, providing increased operator comfort
- Grind aluminum and soft metals without loading
- Contain no wax or rubber fillers

NORTON METAL / NORTON MASONRY

GOOD CHOICE FOR STEEL/FERROUS METAL AND MASONRY APPLICATIONS WITH LOW INITIAL PRICE



FEATURES

- Low initial price point
- Metal – aluminum oxide
- Masonry – sharp silicon carbide

BENEFITS

- Ideal for small-volume jobs where performance need not be measured
- Engineered for all steel/ferrous materials
- Engineered for all masonry materials such as concrete, brick and asphalt

NORTON DIALAST DIAMOND WHEELS

BEST FOR METAL PLATE, PIPE, TUBING, CAST IRON, CARBON AND MILD STEEL, FOUNDRY AND WELDING APPLICATIONS, AND CERAMICS



FEATURES

- A combination of high-quality diamond and advanced brazed single-layer bonding technology
- Environmentally friendly grinding

BENEFITS

- Extra-long life versus conventional abrasives or other vacuum-brazed diamond tools
- Retains the diamond grains and wheel shape for full life with low sparks, while keeping a continuous grinding depth for exceptional wheel life
- Less blade changes reduce downtime and labor costs
- Generate minimal dust for less clean-up and safer working conditions

DEPRESSED CENTER WHEEL DESCRIPTION CODES

BLANK = All Purpose FC = Fast Cut HD = Heavy Duty INOX/SS = Contaminant Free LL = Long Life 1-2-3 = Cutting/Notching/Grinding
 ■ = Aluminum ■ = Foundry ■ = Masonry ■ = Stainless ■ = Steel / Metal



Less Body Stress, Shorter Work Days, and Bigger Pay Days!

- Let Norton Quantum3 wheels take a bite out of your daily grind so you can focus on your off hours
 - Our R & D engineers met all your challenges with a proprietary, highest-performing formulation of uniquely-shaped, 100% ceramic alumina grain and a tough new resin bond
1. Less Grinding Time with a sharper wheel for highest metal removal and reduced pressure from faster cutting action
 2. Less Downtime, Waste, and Cost with longer wheel life using fewer wheels
 3. Operator Comfort with reduced hand fatigue from less cutting vibration

Try These New Wheels On Our Norton No Risk Test Policy – Because Right Choices Matter



TIER:	BEST	BETTER	GOOD	GOOD
TRADENAME:	NORTON NORZON PLUS	NORTON BLUEFIRE	NORTON GEMINI	NORTON METAL
SHAPE:	Type 27/42	Type 27/42	Type 27/42	Type 27/42
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
MATERIAL:	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL ALUMINUM	STAINLESS STEEL/METAL

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #
.040, .045, 1/16" – RightCut Cut-off – Type 27/42						
4 x .045 x 5/8	15,280	25			66252842180	07660705249
4-1/2 x .040 x 5/8-11	13,580	10			66252843227	
4-1/2 x .045 x 5/8-11	13,580	10	66252842006		66252842025	
	13,580	10			66252841913 INOX/SS	
4-1/2 x .045 x 7/8	13,580	25	66252843320		66252842026	66252843604
	13,580	25			66252841912 INOX/SS	
	13,580	25			66252841909 ALU 36	
	13,580	25*			66252842161 5-Pk	
	13,580	250			66253370065 250-Pk	
4-1/2 x 1/16 x 5/8-11	13,580	10		66252843223		
4-1/2 x 1/16 x 7/8	13,580	10		66252843219		
5 x .040 x 5/8-11	12,225	10			66252843228	
5 x .045 x 5/8-11	12,225	10			66252841939	
5 x .045 x 7/8	12,225	25	66252843329		66252842036	66252843849
	12,225	25			66252841914 INOX/SS	
	12,225	25			66252841910 ALU 36	
	12,225	25*			66252842171 5-Pk	
	12,225	250			66253370066 250-Pk	
5 x 1/16 x 7/8	12,225	25		66252843220		
6 x .045 x 5/8-11	10,185	10	66252842007		66252830587	
6 x .045 x 7/8	10,185	25	66252842009		66252842202	66252842015
	10,185	25			66252841916 INOX/SS	
	10,185	25			66252841911 ALU 36	
	10,185	25*			66252842176 5-Pk	
	10,185	250			66253370067 250-Pk	
6 x 1/16 x 7/8	10,185	25		66252843221		
7 x .045 x 5/8-11	8,600	10			66252841919 INOX/SS	
7 x .045 x 7/8	8,600	20			66252912626	
	8,600	20			66252841918 INOX/SS	
7 x 1/16 x 7/8	8,600	10				07660705251
9 x 1/16 x 5/8-11	6,600	10			66253019115	
9 x 1/16 x 7/8	6,600	10			66253017734	
<i>RightCut wheels are to be used for cutting only.</i>						
3/32", .125" – Cut-off – Type 27/42						
4 x .125 x 3/8	15,280	25	66252842001		66252841903	
4-1/2 x 3/32 x 5/8-11	13,580	10			66252842027 INOX/SS	
	13,580	10			66252841940	
4-1/2 x 3/32 x 7/8	13,580	25			66252842028 INOX/SS	
	13,580	25			66252843582 1-2-3	
	13,580	25			66252843588	
4-1/2 x .125 x 5/8-11	13,580	10	66252843321		66252843589	
4-1/2 x .125 x 7/8	13,580	25	66252843322		66252841904	
5 x 3/32 x 5/8-11	12,225	10			66252842037 INOX/SS	
5 x 3/32 x 7/8	12,225	25			66252843587 LL	
	12,225	25			66252843583 1-2-3	
	12,225	25			66252843595	
5 x .125 x 7/8	12,225	25			66252841905	
6 x 3/32 x 5/8-11	10,185	10			66252841906	
6 x 3/32 x 7/8	10,185	25			66252832487 INOX/SS	
	10,185	25			66252841192	
6 x .125 x 5/8-11	10,185	10			66252842021	
6 x .125 x 7/8	10,185	25			66252841907	
7 x 3/32 x 5/8-11	8,600	10			66252841908	
7 x 3/32 x 7/8	8,600	20			66252914638 INOX/SS	
	8,600	20				
7 x .125 x 5/8-11	8,600	10	66252912625			
7 x .125 x 7/8	8,600	20	66252912624		66252900619	
9 x 3/32 x 5/8-11	6,600	10		66252842378		
9 x 3/32 x 7/8	6,600	20		66252842343		

*These wheels are to be used for cutting only. * 5-wheel Job Packs; wheels are packed 5 wheels/Pack, with 5 Job Packs/carton. Order per each wheel in standard package quantities of 25. Order in multiples of 25.*



TIER:	BEST	GOOD
TRADENAME:	NORTON NORZON PLUS	NORTON GEMINI
SHAPE:	Type 27/42	Type 27/42
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Aluminum Oxide
MATERIAL:	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #
1/8" (5/32") – Pipe Notching – Type 27				
4-1/2 x 1/8 (5/32) x 5/8-11	13,580	10		66253370272 XXL
4-1/2 x 1/8 (5/32) x 7/8	13,580	25		66253370271 XXL
5 x 1/8 (5/32) x 5/8-11	12,225	10		66253370273 XXL
5 x 1/8 (5/32) x 7/8	12,225	25		66252842038 XXL
6 x 1/8 (5/32) x 5/8-11	10,185	10		66252841193 XXL
6 x 1/8 (5/32) x 7/8	10,185	20		66252835580 XXL
7 x 1/8 (5/32) x 5/8-11	8,600	10	66252939184	66253370274 XXL
7 x 1/8 (5/32) x 7/8	8,600	20		66252835581 XXL
9 x 1/8 (5/32) x 5/8-11	6,600	10	66253049066	66253370275 XXL
9 x 1/8 (5/32) x 7/8	6,600	20		66253370276 XXL

Pipe Notchers are to be used for cutting/notching only.

See Type 27 .040 – 1/4" Foundry, Type 28 Saucer, Type 27 Flexible, and Type 29 Blending Wheels at the end of this section.



TIER:	BEST	BETTER	GOOD	GOOD	GOOD
TRADENAME:	NORTON NORZON PLUS	NORTON BLUEFIRE	NORTON GEMINI	NORTON METAL	NORTON MASONRY
SHAPE:	Type 27	Type 27	Type 27	Type 27	Type 27
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Silicon Carbide
MATERIAL:	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL ALUMINUM	STAINLESS STEEL/METAL	MASONRY

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #
1/8" – Cutting / Notching / Light Grinding – Type 27						
3 x 1/8 x 3/8	18,000	25	66252842177			
4 x 1/8 x 3/8	15,280	25	66252842004	66252843178	66252842016	
4 x 1/8 x 5/8	15,280	25	66252842005	66252843176	66252842017	66252842014
4-1/2 x 1/8 x 5/8-11	13,580	10	66252843323	66252843211	66252843590	66252843609
	13,580	10		66252843191 FC/INOX/SS	66252842029 ALU 46	
	13,580	10 V			66252842166 2-Pk	
4-1/2 x 1/8 x 7/8	13,580	25	66252843324	66252843212	66252843591	66252843611
	13,580	25		66252843190 FC/INOX/SS	66252842030 ALU 46	66252843601
	13,580	10 V			66252842167 2-Pk	
5 x 1/8 x 5/8-11	12,225	10	66252843330	66252843215		66252843615
	12,225	10		66252843195 FC/INOX/SS		
5 x 1/8 x 7/8	12,225	25	66252843331	66252843216	66252843596	66252843616
	12,225	25		66252843194 FC/INOX/SS		
6 x 1/8 x 5/8-11	10,185	10	66252841891	66252843199 FC/INOX/SS	66252833965	
6 x 1/8 x 7/8	10,185	20		66252843202	66252801864	
	10,185	20		66252843198 FC/INOX/SS		
7 x 1/8 x 5/8-11	8,600	10	66252938855	66252843233	66252939259	07660702678
	8,600	10		66252843183 FC/INOX/SS		
7 x 1/8 x 7/8	8,600	20	66252938854	66252843234	66252939207	
	8,600	20		66252843182 FC/INOX/SS		
	8,600	25*				07660775956 5-Pk
9 x 1/8 x 5/8-11	6,600	10	66253048897	66252843244	66253048983	
	8,600	10		66252843187 FC/INOX/SS		
9 x 1/8 x 7/8	6,600	20	66253048896	66252843245	66253048994	
	6,600	20		66252843186 FC/INOX/SS		

* 5-wheel Job Packs; wheels are packed 5 wheels/Pack, with 5 Job Packs/carton. Order per each wheel in standard package quantities of 25. Order in multiples of 25.
V Vendible 2-wheel Package. Ideal for vending machinings and small jobs. 5 packs/carton. Order in multiples of 10.

DEPRESSED CENTER WHEEL DESCRIPTION CODES						
BLANK = All Purpose	FC = Fast Cut	HD = Heavy Duty	INOX/SS = Contaminant Free	LL = Long Life	1-2-3 = Cutting/Notching/Grinding	
■ = Aluminum	■ = Foundry	■ = Masonry	■ = Stainless	■ = Steel / Metal		



TIER:	BEST	BEST	BETTER	GOOD	GOOD
TRADENAME:	NORTON QUANTUM3	NORTON NORZON PLUS	NORTON BLUEFIRE	NORTON GEMINI	NORTON METAL OR NORTON MASONRY
SHAPE:	Type 27	Type 27	Type 27	Type 27	Type 27
ABRASIVE:	Ceramic Alumina	Ceramic Alumina/ Zirconia Alumina	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide – Metal Silicon Carbide – Masonry
MATERIAL:	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL MASONRY

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #	PART #
1/4" – Grinding – Type 27							
3 x 1/4 x 3/8	18,000	25		66252842178		66252842179	
4 x 1/4 x 3/8	15,280	25	66253371180	66252842002	66252843179	66252842018	
4 x 1/4 x 5/8	15,280	25	66253371181	66252842003	66252843177	66252842020 FC	66252842011
	15,280	25				66252842019	66252842010 Masonry
	15,280	25				66252842183 ALU 46	
4-1/2 x 3/16 x 7/8	13,580	25				66252843592	
4-1/2 x 1/4 x 5/8-11	13,580	10	66253370793	66252843326	66252843213	66252843593	66252843605
	13,580	10		66252843327 LL	66252843193 FC/INOX/ss	66252843585 FC	66252843599 Masonry
	13,580	10				66252842032 INOX/SS	
	13,580	10				66252843785 XXL	
	13,580	10				66252842031 ALU 46	
	13,580	40					66252819559
	13,580	10 V		66252829541 2-Pk	66252842162 2-Pk	66252842163 2-Pk	
4-1/2 x 1/4 x 7/8	13,580	25	66253370794	66252843328	66252843214	66252843594	66252843607
	13,580	25			66252843192 FC/INOX/ss	66252843584 FC	66252843600 Masonry
	13,580	25				66252842033 INOX/SS	
	13,580	25				66252843784 XXL	
	13,580	25				66252842034 ALU 46	
	13,580	50					66252836796
	13,580	10 V		66252829540 2-Pk	66252842164 2-Pk	66252842165 2-Pk	
5 x 1/4 x 5/8-11	12,225	10	66253370795	66252843332	66252843217	66252843597	66252843613
	12,225	10		66252843333 LL	66252843197 FC/INOX/ss	66252843787 XXL	
	12,225	10					
5 x 1/4 x 7/8	12,225	25	66253370796	66252843334	66252843218	66252843598	66252843614
	12,225	25			66252843196 FC/INOX/ss	66252843586 FC	
	12,225	25				66252842040 INOX/SS	
	12,225	25				66252843786 XXL	
	12,225	25				66252842039 ALU 46	
	12,225	10 V				66252842172 2-Pk	
6 x 1/4 x 5/8-11	10,185	10	66253370797	66252841920	66252843224	66252832390	
	10,185	10			66252843201 FC/INOX/ss	66252843789 XXL	
6 x 1/4 x 7/8	10,185	20	66253370798	66252809376	66252843203	66252801865	
	10,185	20			66252843200 FC/INOX/ss	66252843788 XXL	
7 x 1/4 x 5/8-11	8,600	10	66253370799	66252917881	66252843235	66252940147 FC	66252912633
	8,600	10		66252835578 LL	66252843185 FC/INOX/ss	66252940148 LL	07660775942 Masonry
	8,600	10				66252843791 XXL	
	8,600	10				66252940514 ALU 24	
	8,600	10				66252940515 ALU 46	
	8,600	25*					07660775940 5-Pk
7 x 1/4 x 7/8	8,600	20	66253370800	66252917880	66252843236	66252940099 FC	
	8,600	20			66252843184 FC/INOX/ss	66252940098 LL	
	8,600	20				66252843790 XXL	
	8,600	20				66252940516 ALU 24	
	8,600	25*					07660775936 5-Pk
9 x 1/4 x 5/8-11	6,600	10	66253370801	66253021634	66252843246	66253049105 FC	07660775937 Masonry
	6,600	10		66252830728 LL	66252843189 FC/INOX/ss	66253049104 LL	
	6,600	10				66252843793 XXL	
	6,600	10				66253049045 ALU 24	
	6,600	25*					07660775938 5-Pk
9 x 1/4 x 7/8	6,600	20	66253370802	66253021633	66252843247	66253049077 FC	
	6,600	20		66253049069	66252843188 FC/INOX/ss	66253048991 LL	
				NorZon III – Rail Grind			
	6,600	20				66252843792 XXL	

* 5-wheel Job Packs; wheels are packed 5 wheels/Pack. with 5 Job Packs/carton. Order per each wheel in standard package quantities of 25. Order in multiples of 25.
 V Vendible 2-wheel Package. Ideal for vending machinings and small jobs. 5 packs/carton. Order in multiples of 10.

See 1/4 inch thick Type 27 Foundry and Type 28 Saucer Wheels on the next page.



TIER:	BEST	BEST	BEST	BEST	BETTER	GOOD
TRADENAME:	NORTON QUANTUM3	NORTON NORZON PLUS	NORTON DIALAST	NORTON DIALAST	NORTON BLUEFIRE	NORTON GEMINI
SHAPE:	Type 28	Type 28	Type 29	Reversible	Type 28	Type 28
ABRASIVE:	Ceramic Alumina	Ceramic Alumina/ Zirconia Alumina	Diamond	Diamond	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide
MATERIAL:	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #	PART #
1/4" - Grinding - Type 28 Saucer							
7 x 1/4 x 5/8-11	8,600	10	66253370803	66252905369		66252843229	66252940149
7 x 1/4 x 7/8	8,600	20		66252905368			66252940095
9 x 1/4 x 5/8-11	6,600	10	66253370804	66253006335		66252843237	66253049106
9 x 1/4 x 7/8	6,600	20	66253370805				66253049081
Light Grinding - Type 29							
4-1/2 x 5/8-11	13,600	1		66253370009			
5 x 5/8-11	12,225	1		66253370010			
6 x 5/8-11	10,200	1		66253370011			
7 x 5/8-11	8,600	1		66253370012			
9 x 5/8-11	6,600	1		66253370013			
1/4" - Grinding - Reversible Grinding Disc							
4-1/2 x 1/4 x 5/8-11	13,600	1			66253370019		
7 x 1/4 x 5/8-11	8,600	1			66253370020		



TIER:	BEST	BEST	BEST	BETTER	GOOD
TRADENAME:	NORTON QUANTUM3	NORTON NORZON PLUS	NORTON DIALAST	NORTON BLUEFIRE	NORTON FOUNDRY X
SHAPE:	Type 27	Type 27	Type 29	Type 27	Type 27
ABRASIVE:	Ceramic Alumina	Ceramic Alumina/ Zirconia Alumina	Diamond	Zirconia Alumina/ Silicon Carbide	Aluminum Oxide
MATERIAL:	FOUNDRY	FOUNDRY	FOUNDRY	FOUNDRY	FOUNDRY

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #	PART #
.140", 1/8" - Cutting / Notching / Lt. Grinding - Type 27 and Type 29							
4-1/2 x 1/8 x 5/8-11	13,580	10				66252843206	
4-1/2 x 1/8 x 7/8	13,580	25				66252843204	
7 x .140 x 5/8-11	8,600	1			66253370014		
7 x 1/8 x 5/8-11	8,600	10				66252843232	
7 x 1/8 x 7/8	8,600	20				66252915526	
9 x .140 x 5/8-11	6,600	1			66253370015		
9 x 1/8 x 5/8-11	6,600	10				66252843240	
9 x 1/8 x 7/8	6,600	20				66252843238	
1/4" - Grinding - Type 27 and Type 29							
4 x 1/4 x 3/8	15,280	25				66252843181	
4 x 1/4 x 5/8	15,280	25				66252843180	
4-1/2 x 1/4 x 5/8-11	13,580	10				66252843207	
4-1/2 x 1/4 x 7/8	13,580	25				66252843205	
7 x 1/4 x 5/8-11	8,600	10				66252843231	
7 x 1/4 x 7/8	8,600	20				66252843230	
9 x 1/4 x 5/8-11	6,600	10	66253370849 HD	66253007014		66252843241	
	6,600	10				66252843261 HD	
9 x 1/4 x 7/8	6,600	20	66253370848 HD	66253007013		66252843239	66252842776
	6,600	20				66252843260 HD	

DEPRESSED CENTER WHEEL DESCRIPTION CODES					
BLANK = All Purpose	FC = Fast Cut	HD = Heavy Duty	INOX/SS = Contaminant Free	LL = Long Life	1-2-3 = Cutting/Notching/Grinding
■ = Aluminum	■ = Foundry	■ = Masonry	■ = Stainless	■ = Steel / Metal	



TIER: GOOD	BETTER	GOOD
TRADENAME: NORTON GEMINI FLEXIBLE	NORTON GEMINI AVOS	NORTON GEMINI
SHAPE: Type 27	Type 29	Type 29
ABRASIVE: Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
MATERIAL: ALUMINUM	ALUMINUM	ALUMINUM
STEEL/METAL	STEEL/METAL	STEEL/METAL

SIZE (D x T x H)	MAX. RPM	STD. PKG.	GRIT	PART #	PART #	PART #
1/8", 1/4" – Blending – Type 27 and 29						
2 x 1/8 x 3/8	30,560	25	60	66252835632*		
	30,560	25	80	66252835633*		
4 x 1/8 x 5/8	15,280	20	36	66243529721#		
	15,280	20	60	66243529722#		
4-1/2 x 1/8 x 5/8-11	12,000	10	36		66252842208	66252842203
4-1/2 x 1/8 x 7/8	12,000	25	36	66252830424#	66252842209	66252842204
	12,000	25	60	66252830425#	66252842211	
5 x 1/8 x 7/8	12,225	25	36		66252842212	66252842205
7 x 1/8 x 5/8-11	8,600	10	36	66252939024		66252917052
7 x 1/8 x 7/8	8,600	20	36	66252939028#		66252917051
Plastic Back-up Pad for Type 27 Flexible Wheels						
		5		66252844332		66252844332

*5 wheels per display pack; 5 display packs per standard package.
These wheels are packed 20 per box, and must be used with this specific back plate. Two back plates are included in each box.

DEPRESSED CENTER WHEEL DESCRIPTION CODES						
BLANK = All Purpose	FC = Fast Cut	HD = Heavy Duty	INOX/SS = Contaminant Free	LL = Long Life	1-2-3 = Cutting/Notching/Grinding	
■ = Aluminum	■ = Foundry	■ = Masonry	■ = Stainless	■ = Steel / Metal		



Norton Depressed Center Adapter Kit

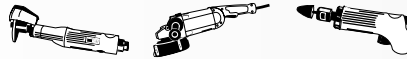
This reusable adapter kit contains everything you need to mount depressed center wheels and saucers with 7/8" center holes on to portable right angle or vertical shaft grinders. Adapter hubs are threaded for mounting on to standard 5/8"-11 NCRH spindles.

KIT NO.	WHEEL DIAMETER	WHEEL THICKNESS	PART #	STD. PKG.
114	6" thru 9"	1/16" thru 1/4"	07660789275	1



For consistent, quality performance in foundries, welding shops, fabrication facilities, steel mills and shipyards, Norton portable snagging wheels maximize your productivity. Used on horizontal/straight shaft grinders or right angle portable cup grinders.

- Applications:** Removing flaws, cracks, gates, risers and parting lines, smoothing weld seams, cleaning castings, and rough beveling
- Size Range:** Type 01 Straight Wheels: 2-1/2" – 8" diameter
Type 06 and 11 Cup Wheels: 4" – 6" diameter
Cones and Plugs: Type 16, 17, 17R, 18 and 18R
- Grit Range:** 14 – 24
- Abrasive Types:** Zirconia Alumina NZ and NV; Zirconia Alumina/Silicon Carbide Blend NVC; Aluminum Oxide 57A and Metal; Aluminum Oxide/Silicon Carbide Blend 57AC, Silicon Carbide 37C and Masonry
- Machine Used:**



MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

		BEST Highest Productivity; Lowest Total Cost	BETTER Excellent Blend of Performance & Price	GOOD Consistent Performance; Low Initial Price
IRON	Gray	NorZon Plus NZ14-R	BlueFire NV16-Q	Gemini 57A16-Q, Metal
	Ductile/Malleable	NorZon Plus NZ14-R	BlueFire NV16-Q	Gemini 57A16-Q, Metal
	Dirty/Scale-covered		BlueFire NVC16-Q	Gemini 57AC16-Q
STEEL	Carbon and Low Alloy	NorZon Plus NZ16-Q	BlueFire NV16-Q	Gemini 57A16-Q, Metal
	Stainless and High Alloy	NorZon Plus NZ16-P	BlueFire NV16-Q	Gemini 57A16-Q, Metal
ALUMINUM, COPPER, BRASS, & BRONZE ALLOYS			BlueFire NVC16-Q	Gemini 57AC16-Q

NOTE: Grade, Grit and Abrasive tuning may be necessary to obtain optimum performance

CROSS REFERENCE GUIDE FOR TYPE 01, 06 AND 11 WHEELS

NORTON	TOTAL PERFORMANCE			INITIAL PRICE		
	BEST	BETTER	GOOD			
	NorZon Plus NZ	BlueFire NV	BlueFire NVC	Gemini 57A/Metal	Gemini 57AC	Gemini 37C/Masonry
Brilliant	—	ZA16QB	—	A16QB	—	C16QB
Bullard	—	ZA16PB	—	A16R	AC16	C16P
Camel	—	—	—	A	CA	C
Flexovit	ZA16PB	—	—	A16QB	AC16QB	C16PB
Gulf States	Zirconium	—	—	A16	—	C16
Pacific	Z, Z-GPC	—	—	A	CA	—
Pearl	—	—	—	A16Q	—	C16-Q
Pferd	ZA 16 Q SG	—	—	A 16 Q SG	—	C 16 Q SG
Sait	—	Z16	—	A16, 20	CA16	C16
Tyrolit	—	—	—	A16PB	—	C16PB
Walter	—	—	—	A	—	C

NORTON NORZON PLUS ZIRCONIA ALUMINA

BEST CHOICE FOR HEAVY-DUTY STOCK REMOVAL ON MEDIUM- AND HIGH-HORSEPOWER GRINDERS

FEATURES

- NZ Plus (NZ IV) – premium zirconia alumina grain

BENEFITS

- Engineered for medium- and high-powered machines; 10X life, 50% faster grinding versus aluminum oxide products



NORTON BLUEFIRE ZIRCONIA ALUMINA

BETTER CHOICE FOR STOCK REMOVAL ON HIGH- AND MEDIUM-HORSEPOWER GRINDERS

FEATURES

- More friable zirconia alumina grain and durable resin bond technologies

BENEFITS

- Higher metal removal rates, faster, freer-cutting than standard zirconia alumina blends
- Up to 5X the life of aluminum oxide products; better grinding action

- NVC – zirconia alumina/silicon carbide blend

- Highly effective on dirty, scale-covered castings



NORTON NORZON III ZIRCONIA ALUMINA

BETTER CHOICE FOR HIGH-POWERED MACHINES

FEATURES

- NorZon III (NZ III) – Durable zirconia alumina grain

BENEFITS

- Engineered for high-powered machines; outstanding cut rate and wheel life



NORTON GEMINI ALUMINUM OXIDE

GOOD CHOICE FOR STEEL AND FERROUS METALS AS WELL AS SPECIALTY APPLICATIONS IN ALUMINUM AND FOUNDRIES

FEATURES

- Quality aluminum oxide

BENEFITS

- Consistent performance at a competitive price



VENDIBLE

NORTON METAL A/O AND MASONRY S/C

GOOD CHOICE FOR STEEL/FERROUS METAL AND MASONRY APPLICATIONS WITH LOW INITIAL PRICE

FEATURES

- Norton Metal: aluminum oxide abrasive
- Norton Masonry: silicon carbide
- Low initial price point

BENEFITS

- Engineered for all steel/ferrous materials
- Engineered for concrete and non-ferrous applications
- Ideal for small-volume jobs where performance need not be measured



EXPANDED OFFERING



TIER: BEST	BETTER	BETTER	GOOD	GOOD
BRAND: Norton	Norton	Norton	Norton	Norton
TRADENAME: NZ IV	BLUEFIRE	NZ III	GEMINI	METAL/MASONRY
SHAPE: Type 01, 06, and 11	Type 01 and 11	Type 01, 06, and 11	Type 01 and 11	Type 11
ABRASIVE: Premium Zirconia Alumina	Zirconia Alumina NV Zirconia Alumina/ Silicon Carbide NVC	Zirconia Alumina	Aluminum Oxide 57A, Silicon Carbide 37C, Aluminum Oxide/ Silicon Carbide 57AC	Metal – Aluminum Oxide Masonry – Silicon Carbide

SIZE (D x T x H)	MAX. RPM	STD. PKG.	SPEC	PART #	SPEC	PART #	SPEC	PART #	SPEC	PART #	SPEC	PART #
Type 01 Straight												
2-1/2 x 1/2 x 3/8	21,700	20							57A24-R	66243522381		
3 x 1/4 x 3/8	20,370	25			NV20-T	66253343872**			57A24-T	66243528831		
3 x 3/8 x 3/8	18,080	10							57A24-R	66243522415		
3 x 1/2 x 3/8	18,080	10							57A24-P	66243522417		
4 x 1/4 x 3/8	15,280	10			NV20-T	66253344098			57A24-R	66243522221		
6 x 1 x 5/8	8,000	5			NV14-R	66253198589	NZ III 14-Q	66252838075	57A16-QS	66252809563		
S Webs	8,000	5					NZ III 14-R	66252837961				
8 x 3/4 x 5/8	6,000	10			NV14-S	66253344347						
S Webs												
8 x 1 x 5/8	6,000	5	NZ IV 16-Q	66253030778	NV16-Q	66253198590						
S Webs	6,000	5	NZ IV 16-Q	66253044532								
	6,000	10			NV14-R	66253344355						
	6,000	10			NV14-T	66253344365						
	6,000	10			NVC16-Q	66253198592						
Type 06 Straight Cup												
6 x 2 x 5/8-11	6,000	5					NZ III 16-R	66252838577				
Rim 2" Back 3/4"												
Type 11 Flaring Cup												
4/3 x 2 x 5/8-11	9,070	10	NZ IV 16-Q	66243530761	NV16-Q	66253198583			57A16-Q	66243510512	Metal 16-Q	66243510512
Rim 3/4" Back 3/4"											Masonry	07660789431
											C16-Q	
5/3-3/4 x 2 x 5/8-11	7,260	5			NV16-Q	66253146918			57A16-Q	66252809598	Metal 16-Q	07660789430
Rim 1" Back 3/4"											Masonry	07660789432
											AC16-P	
6/4-3/4 x 2 x 5/8-11	6,000	5			NV16-Q	66253146925	NZ III 16-Q	66252838568	57A16-Q	66252825201		
Rim 1" Back 3/4"	6,000	5					NZ III 16-R	66252838566				
6/4-3/4 x 2 x 5/8-11	6,000	5	NZ IV 16-P	66252830765	NV14-R	66253344371			37C16-P	66252809609	Masonry	66252809609
Rim 1-1/2" Back 3/4"											C16-P	
	6,000	5			NV16-Q	66253198584			57A16-Q	66252809618		
	6,000	5			NVC16-Q	66253146922			57AC16-Q	66252809608		
Type 11 Flaring Cup with Steel Back												
4/3 x 2 x 5/8-11	9,070	10			NV16-Q	66253146917						
Rim 3/4" Back 3/4"												
5/3-13/16 x 2 x 5/8-11	7,260	10			NV16-Q	66253146920						
Rim 1" Back 3/4"												
6/4-13/16 x 2 x 5/8-11	6,000	5			NV14-R	66253344373			57A16-Q	66252809599		
Rim 1-1/2" Back 3/4"	6,000	5			NV16-Q	66253198586			57AC16-Q	66252809600		
	6,000	5			NVC16-Q	66253146929						

** Std. Pkg. = 50



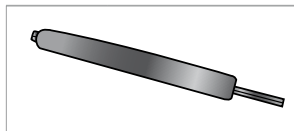
TIER: **BEST** **BETTER** **GOOD** **GOOD**
 TRADENAME: **NORTON NORZON PLUS** **NORTON BLUEFIRE** **NORTON GEMINI** **NORTON METAL**
 ABRASIVE: Zirconia Alumina Zirconia Alumina/Aluminum Oxide Aluminum Oxide Aluminum Oxide

SIZE (D x T x H)	MAX. RPM	STD. PKG.	SPEC	PART #	SPEC	PART #	SPEC	PART #	SPEC	PART #
Type 16 Cones										
1 x 3 x 3/8-24 (ME 107019)	36,290	10			NV20-S	66253344376	57A24-R	61463622342	Metal 24	66253349752
1-1/2 x 2-1/2 x 3/8-24 (ME 44436)	24,190	10					57A24-R	61463622349	Metal 24	66253349754
1-1/2 x 3 x 3/8-24 (ME 139029)	24,190	10			NV20-S	66253344377				
1-1/2 x 3 x 5/8-11 (ME 70535)	24,190	10	NZ IV 20-R	61463644231	NV20-S	66253344379	57A24-R	61463622190	Metal 24	66253349757
1-3/4 x 3 x 3/8-24 (ME49226)	20,735	10					57A24-R	66253325911		
1-3/4 x 3 x 5/8-11 (ME 33432)	20,740	10					57A24-R	61463614503	Metal 24	66253349840
2 x 3 x 5/8-11 (ME 28229)	18,145	10	NZ IV 20-R	61463644232	NV20-S	66253344381	57A24-R	61463622195	Metal 24	66253349841
2-3/4 x 3-1/2 x 5/8-11 (ME 18265)	13,195	10			NV20-S	66253344383	57A24-R	61463622218	Metal 24	66253349846
3 x 3 x 5/8-11 (ME70537)	12,100	10						61463622387	Metal 24	66253349855
Type 17 Cones, Square Tip										
1-1/2 / 1/2 x 3 x 3/8-24	24,190	10					57A24-R	61463622194	Metal 24	66253349753
2 / 1/2 x 3 x 5/8-11	18,145	10					57A24-R	61463615722	Metal 24	66253349845
Type 17R Cones, Round Tip										
2 / 3/4 x 3 x 5/8-11 (ME 151373)	18,145	10			NV20-S	66253344384				
Type 18 Plugs, Square Tip										
1-1/2 x 2-1/2 x 3/8-24	24,190	10					57A24-R	61463622217	Metal 24	66253349755
	24,190	1 V					57A24-R	66253325902		
1-1/2 x 2-1/2 x 5/8-11	24,190	10	NZ IV 20-R	61463644224	NV20-S	66253344385	57A24-R	61463622351		
	24,190	1 V					57A24-R	66253325905		
1-1/2 x 3 x 5/8-11	24,190	10			NV20-S	66253344386	57A24-R	61463622191	Metal 24	66253349838
	24,190	1 V					57A24-R	66253325909		
2 x 3 x 5/8-11	18,145	10	NZ IV 20-R	61463644234	NV20-S	66253344387	57A24-R	61463622219	Metal 24	66253349847
	18,145	10			NV24-S	66253344391				
2 x 4 x 5/8-11	18,145	10					57A24-R	61463622366	Metal 24	66253349850
Type 18R Plugs, Round Tip										
1-1/2 x 3 x 3/8-24	24,190	10					57A24-R	61463622192	Metal 24	66253349756
	24,190	1 V					57A24-R	66253325907		
2 x 3 x 5/8-11	18,145	10			NV20-S	66253344389	57A24-R	61463622220	Metal 24	66253349849

V = Vendible Package. IDEAL FOR VENDING MACHINES & SMALL JOBS.

Core Files

These files consist of coarse grit silicon carbide abrasive in a hard grade, resin-bonded to a reinforcing rod. Half-round in shape, they are a frequent choice for easy cleaning of rough castings.

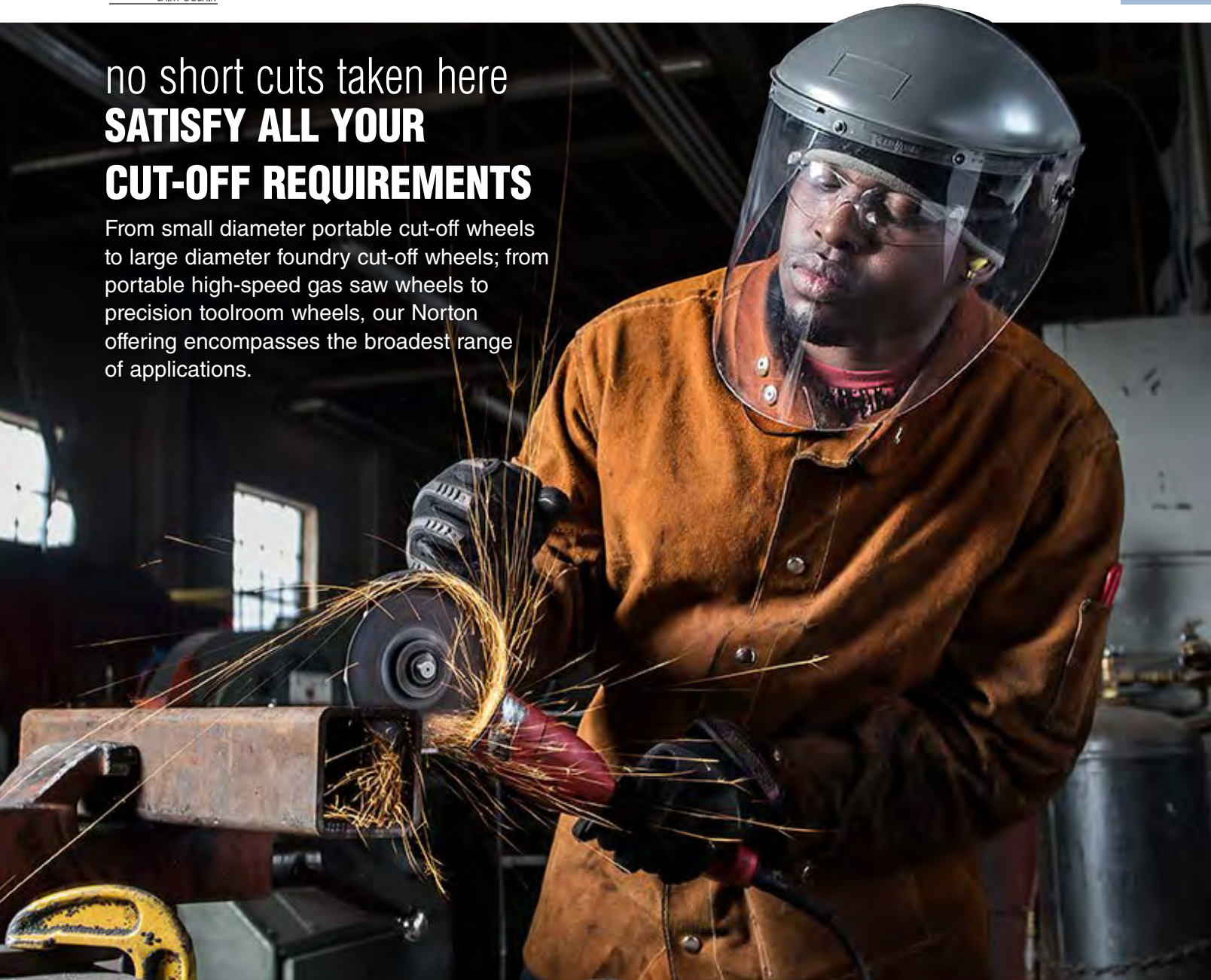


TIER: **GOOD**
 BRAND: Norton
 ABRASIVE: Silicon Carbide

SIZE (T x W x L)	STD. PKG.	SPEC.	PART #
Stock Resinoid Core Files – Silicon Carbide			
1/2 x 1 x 10	5	37C24-SB	61463610314

no short cuts taken here
**SATISFY ALL YOUR
CUT-OFF REQUIREMENTS**

From small diameter portable cut-off wheels to large diameter foundry cut-off wheels; from portable high-speed gas saw wheels to precision toolroom wheels, our Norton offering encompasses the broadest range of applications.



Work Smarter, Not Harder

The fastest cutting wheels in today's market; the ultimate choice for highest productivity on steel, stainless steel, and all ferrous metals.



A Wheel for Every Chop Saw Job

Free Cut side-reinforced wheels for large cross-sections, Long Life wheels for small cross-sections and centrally-reinforced non-binding wheels for burr and burn-free cuts.



Performance on Fire

No job is too tough for our FoundryX wheels to tackle. Designed with tough, durable abrasives, bonds and reinforcement types specific to foundry machine parameters and materials.

SMALL DIAMETER REINFORCED CUT-OFF



The Norton small diameter cut-off wheel line consists of Type 01/41 straight and Type 27/42 depressed center cut-off wheels from 1-1/2" to 9" diameters. These wheels come in ultra thin .035 for quick burn-free and burr-free cutting to .125" for more durable applications. All are reinforced for the demanding nature of portable cut-off.

Applications: Cutting sheet metal, cutting pipe, and metal fabrication
 Size Range: 1-1/2" - 9" diameter
 Thickness Range: .035, .040, .045, .050, .060, 1/16, .090, 3/32 and .125
 Abrasive Grain: Ceramic Alumina/Zirconia Alumina, Zirconia Alumina/Aluminum Oxide, Aluminum Oxide, Silicon Carbide, Diamond
 Shape: Type 01/41 Straight and Type 27/42 Depressed Center
 Machine Used:



TYPE-TO-APPLICATION RECOMMENDATION GUIDE

Wheel Type/Thickness	Applications	
TYPE 01/41 	Type 01/41 straight cut-off wheels are designed for portable cut-off tool applications. All are supplied with full fiberglass reinforcing.	
.035, .040, .060, and 1/16 .125	Where fast cutting and low kerf loss are desired	■
TYPE 01/41 RIGHTCUT 	For tough cutting and notching applications where stability is important Type 01/41 RightCut straight cut-off wheels are designed for use on right angle grinder cut-off applications. All are supplied with full fiberglass reinforcing.	
.035, .040, .045, .050, 1/16 3/32	Where fast cutting and low kerf loss are desired	■
TYPE 27/42 RIGHTCUT 	For tough cutting and notching applications where stability is important Type 27/42 RightCut depressed center cut-off wheels are designed for use on right angle grinder cut-off applications. Their depressed center shape provides a recess for the hub, which allows flush cutting. All are supplied with full fiberglass reinforcing.	
.040, .045, 1/16 3/32, .125	Where fast cutting and low kerf loss are desired	■
	For tough cutting and notching applications where stability is important	■

HOW TO PICK THE RIGHT BOND TYPE

All Purpose	Unmarked	Where an excellent blend of cut rate and life is needed
Free Cut	FC	Where fast stock removal is needed, or the application only allows low-pressure or under-horsepowered grinders
Long Life	LL	Where durability is needed due to severe application, and when horsepower of the grinder allows heavy pressure
Contaminate Free	INOX/SS	Contain <0.1% iron, sulfur or chlorine for rust-free and corrosion-free results; will not contaminate stainless steel
Aluminum	ALU	Specially formulated bond for reduced loading and surface contamination while cutting aluminum and soft materials

SAFETY

Dangerous Pairing: Die Grinders and Cut-off Wheels

While die grinders and cut-off tools may look similar, they are not interchangeable. Small diameter cut-off wheels can be used only on portable cut-off tools. Several crucial differences exist between the two handheld machines.

- Small diameter cut-off wheels must be used on portable cut-off tools with guards for the safety of the operator and bystanders. Also, portable cut-off tool guards prevent use of an oversize wheel.
- These cut-off wheels must be mounted between proper flanges on portable cut-off tools as described in the national safety standard for abrasive wheels, ANSI B7.1. Die grinders make use of a collet for mounting.
- All cut-off wheels must be used at or below their maximum operating speed, marked clearly on the side of the wheel. Die grinders operate above cut-off wheel speeds. Excessive speed can result in breakage and serious personal injury.



It is the user's responsibility to refer to and comply with ANSI B7.1

SMALL DIAMETER REINFORCED CUT-OFF

MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

	BEST Highest Productivity; Lowest Total Cost	BETTER Excellent Blend of Performance & price	GOOD Consistent Performance; Low Initial Price
CUTTING			
Mild Carbon / High Tensile Steel	Norton NorZon Plus	Norton BlueFire	Norton Metal
Stainless Steel / Alloys	Norton NorZon Plus	Norton BlueFire INOX/SS	Norton Gemini INOX/SS
Contaminate Free		Norton BlueFire INOX/SS	Norton Gemini INOX/SS
Cast Iron	Norton NorZon Plus	Norton BlueFire	Norton Gemini
Aluminum / Bronze / Brass			Norton Gemini ALU
Asphalt / Brick / Concrete			Norton Masonry

CROSS REFERENCE GUIDES

Type 01/41 .035 - .125 Reinforced Cut-off Wheels for Portable Cut-off Tools



	TOTAL PERFORMANCE			INITIAL PRICE	
	BEST	BETTER	GOOD		
NORTON	NorZon Plus	BlueFire	Gemini Free Cut	Gemini Long Life	Metal
Brilliant	—	Brill-Max ZA	—	—	Safe-Tex FC, LL
Bullard	—	ZA46T, ZA60T	TA36T	TA46T, TA60T	A36T, A60T Comp.
Camel	—	ZA60-TBF	A36 RBF	A60 RBF	Fast Cut RBF
Flexovit	Flexon Fast Cut A46, 60	—	High Perf Fast Grind A36	High Perf Fast Cut A36, 46, 60	—
Pearl	—	SRT, Zirconia	—	Premium	Silver Line
Pferd	—	—	—	—	PSF-A
Sait	Saittech	—	A60S	A24R, A36T, A60T	—
Spedecut	—	—	—	—	A46, 60 TBXX
Walter	—	—	A24 ZIP	A60 ZIP	—

Type 01/41 and Type 27/42 .035 - .125 Reinforced Cut-off Wheels for Right Angle Grinders



	TOTAL PERFORMANCE			INITIAL PRICE		SPECIALITY	
	BEST		GOOD		GOOD		
NORTON	NorZon Plus	BlueFire	Gemini Free Cut	Gemini	Metal	Gemini ALU	Gemini INOX/SS
Brilliant	—	—	Brill-Blade Extra FC	Brill-Blade Heavy Duty	Hornet Stinger	—	—
Bullard	—	ZA60T	SGA60U	TA46T, TA60T, TA60U	A46T, A60T Comp.	AL46N	—
Camel	—	ZA Quickie Cut	A36-S-BF	Super Quickie Cut	Quickie Cut	A46 Quickie Cut	A60-T-BF, WA60R Quickie Cut
Flexovit	—	—	Razorblade A60SST	Razorblade A24T, 30V, 36T	—	Razorblade A30Q	—
Metabo	—	A 60 XP Super Slicer	—	A 60 TX Slicer-Plus	A 60 TZ Slicer	—	—
Pearl	—	Redline Max Slimcut	—	Slimcut	Slimcut Pro-V, Silverline	—	—
Pferd	—	SGP-ZA-Q-INOX	—	SG-A-S, SGP-A-T	PSF-A-P	S-G-N-ALU	SG-A-R-INOX, SGP-A-S-INOX
Sait	Saittech	Z-tech	SAIT.M.X	A60S	—	A46N	XA46R
SpedeCut	—	—	—	—	A46, 60 TBXX	—	—
Walter	—	—	A-30-ZIP	A-60-ZIP	—	A-60-ZIP-ALU	A60-SS-ZIP

SMALL DIAMETER REINFORCED CUT-OFF NORTON NORZON PLUS CERAMIC/ZIRCONIA BLEND

BEST CHOICE FOR HIGHEST PRODUCTIVITY FOR STEEL, STAINLESS STEEL AND ALL FERROUS METALS



FEATURES

- Norton SG (ceramic alumina) / NorZon (zirconia alumina) grain combination
- Highly-advanced bond system
- RightCut right angle grinder wheels

BENEFITS

- Fastest cutting wheel available on the market, up to 3X faster cutting versus aluminum oxide
- 3X – 10X life versus aluminum oxide wheels on carbon steel, stainless and cast iron
- Noticeably longer life and faster cut rate
- Less pressure required for first cut

NORTON BLUEFIRE ZIRCONIA ALUMINA/AO BLEND

BETTER CHOICE FOR STAINLESS STEEL, CARBON STEEL, ALLOYS AND GRAY IRON



FEATURES

- A blend of R&D advanced chemistry and shaped zirconia alumina abrasive and premium aluminum oxide grain
- IMPROVED PERFORMANCE! RightCut right angle grinder wheels

BENEFITS

- 2-3 times the life of aluminum oxide wheels
- Broad utility from light-to heavy-pressure applications
- Excellent performance-to-price ratio for lower total grinding costs
- Over 50% more life; the true choice for broad versatility and better value, to lower production costs
- Less pressure required for first cut

NORTON GEMINI ALUMINUM OXIDE

GOOD, VERSATILE CHOICE FOR STEEL AND FERROUS METALS



FEATURES

- Quality, versatile aluminum oxide
- Gemini Contaminate-Free INOX/SS
- .040 and .045 ultra-thin Gemini RightCut right angle grinder Type 01/41 straight and T27/42 depressed center cut-off wheels

BENEFITS

- Consistent performance at a competitive price
- Contain <0.1% iron, sulfur or chlorine for rust-free and corrosion-free results; will not contaminate stainless steel
- Precise cutting; more stability and a narrower pass
- Up to 70% longer life and 20% faster cut rate than standard aluminum oxide wheels – for substantial savings
- Require less pressure, providing increased operator comfort

NORTON METAL ALUMINUM OXIDE

GOOD CHOICE FOR GRINDING ALLOYS, METALS, STEELS, AND FERROUS METALS



FEATURES

- Quality aluminum oxide
- Low initial cost per wheel

BENEFITS

- Consistent performance at a competitive price
- Ideal for small-volume jobs where performance need not be measured

NORTON DIALAST DIAMOND WHEELS

BEST FOR METAL PLATE, PIPE, TUBING, CAST IRON, CARBON AND MILD STEEL, FOUNDRY AND WELDING APPLICATIONS, AND CERAMICS



FEATURES

- A combination of high-quality diamond and advanced brazed single-layer bonding technology
- Environmentally-friendly grinding

BENEFITS

- Extra-long life versus conventional abrasives or other vacuum-brazed diamond tools
- Retains the diamond grains and wheel shape for full life with low sparks, while keeping a continuous grinding depth for exceptional wheel life
- Less blade changes reduce downtime and labor costs
- Generate minimal dust for less clean-up and safer working conditions

SMALL DIAMETER REINFORCED CUT-OFF



TIER:	BEST	BETTER	BETTER	GOOD	GOOD	GOOD
TRADENAME:	NORTON NORZON PLUS	NORTON BLUEFIRE	NORTON A60-OBNA2	NORTON GEMINI	NORTON GEMINI LONG LIFE	NORTON METAL
SHAPE:	Type 01/41	Type 01/41	Type 01/41	Type 01/41	Type 01/41	Type 01/41
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
MATERIAL:	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #	PART #	PART #
.035", .040", .060", 1/16" and .125" Type 01/41 - Cut-off								
1-1/2 x .035 x 1/16	40,745	25			66243427764			
1-1/2 x .035 x 1/8	40,745	25			66243427831			
1-1/2 x .035 x 1/4	40,745	25			66243427875			
2 x .035 x 1/8	30,560	25				66243411392	FC	
2 x .035 x 1/4	30,560	25			66243428014	66243411393	FC	
2 x .035 x 3/8	30,560	25				66243411394	FC	
2 x .060 x 1/8	30,560	25			66243428041			
2 x 1/16 x 1/4	30,560	25				66243411395	FC	
2 x 1/16 x 3/8	30,560	25				66243411396	FC	
2 x .125 x 1/4	30,560	25				66243411402	FC	
2 x .125 x 3/8	30,560	25				66243411403	FC	
2-1/2 x .035 x 1/8	30,560	25			66243528476			
2-1/2 x .035 x 1/4	30,560	25			66243528425			
2-1/2 x 1/16 x 1/4	30,560	25				66243510640	FC	
2-1/2 x 1/16 x 3/8	30,560	25				66243510641	FC	
3 x .035 x 1/4	25,465	25	66243510668		66243528573	66243510627	FC	
	25,465	25*	66243531753	5-Pk				
3 x .035 x 3/8	25,465	25	66243510669	66252843174	66243528574	66243510628	FC	66243537271 LL
	25,465	25*		66243534821	5-Pk			07660789451
3 x 1/16 x 1/4	25,465	25	66243510670		66243528471	66243510645	FC	66243510649 LL
3 x 1/16 x 3/8	25,465	25	66243510671	66252843175	66243528552	66243510647	FC	66243510648 LL
	25,465	25	66243510835	LL				
	25,465	25*						07660747767 5-Pk
	25,465	100						07660789012
	25,465	10-Pk+						66252843624 5 Whls & 1 Mandrel/Pack
3 x .125 x 1/4	25,465	25				66243510650	FC	66243510652 LL
3 x .125 x 3/8	25,465	25	66243510673			66243510651	FC	66243510653 LL
4 x .035 x 1/4	15,300	25			66243529606			
	19,100	25				66243510629	FC	
4 x .035 x 3/8	19,100	25	66243510675	66252843173	66243529621	66243510630	FC	66243537273 LL
4 x .035 x 1/2	19,100	25			66243529622			07660789453
4 x .035 x 3/4	19,100	25			66243529609			
4 x .040 x 3/8	19,100	25			66243529516			
4 x 1/16 x 1/4	19,100	25	66243510676			66243510654	FC	
4 x 1/16 x 3/8	19,100	25	66243510677	66252843171		66243510655	FC	66243510657 LL
4 x 1/16 x 5/8	19,100	100			66243527827			66252843848
					FabCut			
4 x .125 x 1/4	19,100	25				66243510658	FC	
4 x .125 x 3/8	19,100	25	66243510841	66252843172		66243510659	FC	66243510661 LL
	19,100	25	66243510680	LL				
Drill Mount Mandrel		5						07660747769+

+ For mounting 2" and 3" x 3/8" hole cut-off wheels on to a drill
 * 5-wheel Job Packs; wheels are packed 5 wheels/Pack, with 5 Job Packs/carton. Order per each wheel in standard package quantities of 25. Order in multiples of 25.
 † Order per number of pack, in multiples of 10 packs. Priced per pack.

WHEEL DESCRIPTION CODES			
BLANK = All Purpose	FC = Fast Cut	INOX/SS = Contaminant Free	LL = Long Life
■ = Masonry	■ = Stainless	■ = Steel / Metal	

SMALL DIAMETER REINFORCED CUT-OFF



TIER:	BEST	BEST	BETTER	GOOD	GOOD
TRADENAME:	NORTON NORZON PLUS RIGHTCUT	NORTON DIALAST RIGHTCUT	NORTON BLUEFIRE RIGHTCUT	NORTON GEMINI RIGHTCUT	NORTON METAL RIGHTCUT
SHAPE:	Type 01/41	Type 01/41	Type 01/41	Type 01/41	Type 01/41
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Diamond	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
MATERIAL:	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #	PART #
.035", .040", .045", .050", 1/16, and 3/32" Type 01/41 – RightCut Cut-off							
4 x .040 x 5/8	15,280	25					07660701616
4 x .045 x 5/8	15,280	25				66243527956	
4 x 3/32 x 5/8	15,280	25				66243527955	
4-1/2 x .035 x 7/8	13,580	25					66252843846
4-1/2 x .040 x 7/8	13,580	25				66252843225	07660701617
	13,580	50					66253370222
	13,580	250•					66252840001 250-Pk
	13,580	25*					66252842158 5-Pk
4-1/2 x .045 x 7/8	13,580	25	66252830730			66252823602	
	13,580	25				66252841994 ALU	
	13,580	25				66252841997 INOX/SS	
	13,580	250•				66252841213 250-Pk	
	13,580	25*				66252842160 5-Pk	
4-1/2 x .050 x 7/8	13,580	1		66253370016			
4-1/2 x 1/16 x 7/8	13,580	25			66252843208		66252843845
	13,580	25*			66252842159 5-Pk		
	13,580	250•			66253371660		
4-1/2 x 3/32 x 7/8	13,580	25				66252823599	
5 x .040 x 5/8	12,225	25					66252843847
5 x .040 x 7/8	12,225	25				66252843226	07660701618
5 x .045 x 7/8	12,225	25	66252830731			66252823603	
	12,225	25				66252841995 ALU	
	12,225	25				66252841998 INOX/SS	
	12,225	250•				66252841214 250-Pk	
	12,225	25*				66252842170 5-Pk	
5 x .050 x 7/8	12,225	25	66252809829 NZ ThinCut				
	12,225	1		66253370017			
5 x 1/16 x 7/8	12,225	25			66252843209		
	12,225	250•			66253371661		
	12,225	25*			66252842169 5-Pk		
5 x 3/32 x 7/8	12,225	25				66252823600	
6 x .040 x 7/8	10,185	25					07660702757
	10,185	50					66253370223
	10,185	250•					66252841212 250-Pk
6 x .045 x 7/8	10,185	25	66252842008			66252823604	
	10,185	25				66252841996 ALU	
	10,185	25				66252841999 INOX/SS	
	10,185	250•				66252841215 250-Pk	
	10,185	25*			66252842174 5-Pk	66252842175 5-Pk	
6 x .050 x 7/8	10,185	1		66253370018			
6 x 1/16 x 7/8	10,185	25			66252843210		
	10,185	250•			66253371662		
6 x 3/32 x 7/8	10,185	25				66252823601	
7 x .045 x 7/8	8,600	25				66252832323	
	8,600	20				66252842000 INOX/SS	
7 x 1/16 x 7/8	8,600	25	66252900652				
	8,600	1		70184694055			
9 x .060 x 7/8	6,600	1		70184694056			

RightCut wheels are to be used for cutting only

* 5-wheel Job Packs; wheels are packed 5 wheels/Pack, with 5 Job Packs/carton. Order per each wheel in standard package quantities of 25. Order in multiples of 25.

• Bulk packed 250 Wheels/carton; 5 inner boxes of 50 wheels each. Order in multiples of 250 wheels.



BlueFire RightCut Right Angle Grinder Cut-off Wheels

- Double your production with the improved performance of Norton BlueFire RightCut right angle grinder wheels
- Gain over 50% more wheel life with our advanced-chemistry blend of zirconia and aluminum oxide abrasives
- Excellent performance/price ratio, with broadest versatility, guaranteed to lower your production costs
- Available in Type 01/41 straight and Type 27/42 depressed center wheels.

And, that's money in the bank!

SMALL DIAMETER REINFORCED CUT-OFF



TIER:	BEST	BETTER	GOOD	GOOD
TRADENAME:	NORTON NORZON PLUS	NORTON BLUEFIRE	NORTON GEMINI	NORTON METAL
SHAPE:	Type 27/42	Type 27/42	Type 27/42	Type 27/42
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
MATERIAL:	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL ALUMINUM	STAINLESS STEEL/METAL

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #
.040, .045, 1/16" – RightCut Cut-off – Type 27/42						
4 x .045 x 5/8	15,280	25			66252842180	07660705249
4-1/2 x .040 x 5/8-11	13,580	10			66252843227	
4-1/2 x .045 x 5/8-11	13,580	10	66252842006		66252842025	
	13,580	10			66252841913 INOX/SS	
4-1/2 x .045 x 7/8	13,580	25	66252843320		66252842026	66252843604
	13,580	25			66252841912 INOX/SS	
	13,580	25			66252841909 ALU 36	
	13,580	25*			66252842161 5-Pk	
	13,580	250			66253370065 250-Pk	
4-1/2 x 1/16 x 5/8-11	13,580	10		66252843223		
4-1/2 x 1/16 x 7/8	13,580	10		66252843219		
5 x .040 x 5/8-11	12,225	10			66252843228	
5 x .045 x 5/8-11	12,225	10			66252841939	
5 x .045 x 7/8	12,225	25	66252843329		66252842036	66252843849
	12,225	25			66252841914 INOX/SS	
	12,225	25			66252841910 ALU 36	
	12,225	25*			66252842171 5-Pk	
	12,225	250			66253370066 250-Pk	
5 x 1/16 x 7/8	12,225	25		66252843220		
6 x .045 x 5/8-11	10,185	10	66252842007		66252830587	
6 x .045 x 7/8	10,185	25	66252842009		66252842202	66252842015
	10,185	25			66252841916 INOX/SS	
	10,185	25			66252841911 ALU 36	
	10,185	25*			66252842176 5-Pk	
	10,185	250			66253370067 250-Pk	
6 x 1/16 x 7/8	10,185	25		66252843221		
7 x .045 x 5/8-11	8,600	10			66252841919 INOX/SS	
7 x .045 x 7/8	8,600	20			66252912626	
	8,600	20			66252841918 INOX/SS	
7 x 1/16 x 7/8	8,600	10				07660705251
9 x 1/16 x 5/8-11	6,600	10			66253019115	
9 x 1/16 x 7/8	6,600	10			66253017734	
<i>RightCut wheels are to be used for cutting only.</i>						
3/32", .125" – Cut-off – Type 27/42						
4 x .125 x 3/8	15,280	25	66252842001		66252841903	
4-1/2 x 3/32 x 5/8-11	13,580	10			66252842027 INOX/SS	
	13,580	10			66252841940	
4-1/2 x 3/32 x 7/8	13,580	25			66252842028 INOX/SS	
	13,580	25			66252843582 1-2-3	
	13,580	25			66252843588	
4-1/2 x .125 x 5/8-11	13,580	10	66252843321		66252843589	
4-1/2 x .125 x 7/8	13,580	25	66252843322		66252841904	
5 x 3/32 x 5/8-11	12,225	10			66252842037 INOX/SS	
5 x 3/32 x 7/8	12,225	25			66252843587 LL	
	12,225	25			66252843583 1-2-3	
	12,225	25			66252843595	
5 x .125 x 7/8	12,225	25			66252841905	
6 x 3/32 x 5/8-11	10,185	10			66252841906	
6 x 3/32 x 7/8	10,185	25			66252832487 INOX/SS	
	10,185	25			66252841192	
6 x .125 x 5/8-11	10,185	10			66252842021	
6 x .125 x 7/8	10,185	25			66252841907	
7 x 3/32 x 5/8-11	8,600	10			66252841908	
7 x 3/32 x 7/8	8,600	20			66252914638 INOX/SS	
	8,600	20				
7 x .125 x 5/8-11	8,600	10	66252912625			
7 x .125 x 7/8	8,600	20	66252912624		66252900619	
9 x 3/32 x 5/8-11	6,600	10		66252842378		
9 x 3/32 x 7/8	6,600	20		66252842343		

*These wheels are to be used for cutting only. * 5-wheel Job Packs; wheels are packed 5 wheels/Pack, with 5 Job Packs/carton. Order per each wheel in standard package quantities of 25. Order in multiples of 25.*

SMALL DIAMETER REINFORCED CUT-OFF



TIER:	BEST	BETTER	GOOD	GOOD	GOOD
TRADENAME:	NORTON DIALAST	NORTON CHARGER	NORTON GEMINI	NORTON METAL	NORTON MASONRY
SHAPE:	Type 01/41	Type 01/41	Type 01/41	Type 01/41	Type 01/41
ABRASIVE:	Diamond	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Silicon Carbide
MATERIAL:	STAINLESS	STEEL/METAL	STEEL/METAL	STEEL/METAL	MASONRY

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #	PART #
Type 01/41 – Circular Saw							
6 x .035 x 5/8	10,185	25			66252809714		
6 x 1/16 x 5/8	10,185	25			66252809718		
6-1/2 x .125 x DM-5/8	9,405	10				07660789098	07660789089
7 x 1/16 x 5/8	8,730	25			66252905957		
7 x .060 x 7/8	8,600	1	70184694055				
7 x 1/8 x DM-5/8	8,730	25				07660789097	07660789088
8 x 1/16 x 5/8	7,640	25		66253017771 LL	66253007025		
	7,640	10			66253017795		
8 x 1/8 x DM-5/8	7,640	10				07660789096	07660789086
9 x .060 x 7/8	6,600	1	70184694056				



DM Denotes Diamond Mount; 5/8" hole bushings included

WHEEL DESCRIPTION CODES			
BLANK = All Purpose	FC = Fast Cut	INOX/SS = Contaminant Free	LL = Long Life
■ = Masonry	■ = Stainless	■ = Steel / Metal	



Dialast Diamond: Introducing The Last Cut-Off and Depressed Center Wheels Standing!

Metal working demands tools that will cut or grind fast, throw a minimum of sparks, and above all, LAST.

Norton DiaLast diamond cutting and grinding wheels give the operator everything needed to get the job done right, the very first time:

- Right angle grinder, circular saw, and chop saw blades for cutting steel, metal studs, stainless steel, nonferrous materials, tile, brick, plastic, and much more.
- DiaLast depressed center cutting and grinding wheels are an excellent choice on steel, cast iron, ductile pipe, tubing, and metal plate when high stock removal is desired

To learn more, see DiaLast depressed center (page 11) and cut-off wheel Features and Benefits (page 19).

HIGH-SPEED REINFORCED CUT-OFF



Norton high-speed cut-off abrasive wheels provide the industry's leading performance in all high-speed gas and electric-powered applications.

- Applications:** Metalworking: steel, stainless, ductile, cast iron, rail steel and metal decking
 Non-Metal Building Materials: concrete, brick, masonry, asphalt aggregate, stone and schedule 40 and 80 PVC pipe
 Rescue and Demolition: steel, acrylic, fiberglass, rubber, glass, wood, concrete, brick and asphalt
- Size Range:** 12" – 16" diameter
- Thickness Range:** 1/8" and 5/32"
- Abrasive Grain:** Aluminum Oxide, Silicon Carbide, Silicon Carbide/Aluminum Oxide Blend
- Shape:** Type 01/41 Straight
- Reinforcement:** Wheels are offered in standard two-layer reinforcement as well as three-layer reinforcement for higher-speed saws and heavy-duty applications
- Arbor:** Wheels are offered with patented universal arbor that accommodates both 20mm and all other machines with 1" arbors
- Machine Used:**



MATERIAL / APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

Icon		Application
	Metal	High-performance aluminum oxide grain wheels designed for general purpose cutting of all steel and stainless parts including rebar, steel pipe, structural steel, sheet metal, cable and small to medium diameter solid pieces.
	Metal Decking	High-performance aluminum oxide abrasive combined with a thicker wheel (5/32") that stands up to the sharp edges of sheet metal and roof decking.
	Ductile/Cast Iron	A special blend of silicon carbide abrasive for cutting and aluminum oxide abrasive for life, designed to cut ductile and cast iron pipe, concrete-lined water pipes, sewer construction and heavy duty PVC.
	Rescue	For ventilation, forcible entry, rescue and demolition. A versatile abrasive formula that can be used on a wide range of materials including all types of metals and masonry.
	Concrete	Coarse grit silicon carbide abrasive provides a low initial cost solution for cutting brick, block, concrete or other masonry materials. For higher-production applications that require optimum speed of cut and product life, please see our complete selection of high-speed diamond wheels in our Norton Construction diamond product line.
	Asphalt	A special blend of extra coarse silicon carbide abrasive grains provides a low initial cost solution for cutting asphalt, green concrete, asphalt over concrete, a wide range of aggregates and abrasive materials. For higher-production applications that require optimum speed of cut and product life, please see our Norton Construction diamond blade product offering in the Construction Product section of this catalog -and the complete offering in our "Diamond, Abrasives and Equipment for the Construction Market Catalog" #7719 found on www.nortonabrasives.com

HOW TO PICK THE RIGHT REINFORCEMENT

	Two full layers of reinforcing are offered for lower power machines, and light-to-medium applications where speed of cut is the primary selection criterion.
	Three full layers of reinforcing are recommended for high-speed, high-power machines where the application is heavy-duty, and durability is the primary selection criterion.



Universal Arbor

Two Blade Sizes in One

Our Norton patented 1"/20mm knock-out arbor fits all gas and electric high-speed saws. A 20mm bushing is pre-mounted into the 1" molded arbor hole. The wheel, with the 20mm bushing, can be mounted directly on any 20mm arbor high-speed saw. With the bushing removed, exposing the 1" arbor hole, the wheel can be mounted on any 1" arbor high-speed saw. Combining this arbor, with heavy-duty triple reinforcing results in a higher performing, extra strong, longer lasting cutting wheel. Once the 20mm bushing is removed, it cannot be replaced.

HIGH-SPEED REINFORCED CUT-OFF

CROSS REFERENCE GUIDE

SPECIALITY

NORTON	Gemini Metal	Gemini Metal Decking	Gemini Ductile	Gemini Concrete	Gemini Asphalt
Abmast	A 24 R, Kompetitor Metal	A 24 T	AC 24 R, Kompetitor Ductile Iron	C 24 R, Kompetitor Concrete	C 16 T, Kompetitor Asphalt
Brilliant	Metal/Stainless	—	—	Concrete/Masonry	—
Bullard Blaze & Road Warrior	A24R, ZA24Q	TA24R	AC24R	C24R, The Competitor	CC20R
Camel	A24-R	A24-T	AC24-R	C24-R	C16-U
Flexovit	A24/30SB	A24TB	AC24SB	C30UB	C16UB
Husqvarna	Blue XHS, Blue QMS-CM, Blue EHS	Grey QMS-CM	Green QMS-CM, Green EHS	Red XHS, Red QHS-CM, Red EHS	Black QMS-AS
Pearl	SRT, Premium A36S, Silver Line A30R	—	AC30S	Premium C36S, Silver Line C24R	—
Pferd	A 24 R SG	A 24 Q SG-RAIL	AC 24 Q SG	C 24 R SG	—
Sait	A24R, A30S, XFC	Brute	Ductile	C24R	Big M.A.C, XFC
Tyrolit	A30P, A30BF	—	AC24, AC30BF	1C24, C30BF	—
Virginia Abrasives	Metal	—	Ductile	Concrete	Asphalt
Walter	A-24	—	—	—	—

TIER: GOOD	GOOD	GOOD	GOOD
BRAND: Norton	Norton	Norton	Norton
TRADENAME: GEMINI METAL HD	GEMINI METAL	GEMINI METAL DECKING	GEMINI RESCUE
SHAPE: Type 01/41	Type 01/41	Type 01/41	Type 01/41
ABRASIVE: Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Silicon Carbide / Aluminum Oxide Blend
REINFORCING: 3 Layers	2 Layers	2 Layers	2 Layers
MATERIAL:			

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #
Type 01/41 Cut-off – for Gas & Electric-Powered Saws						
12 x 1/8 x 1" / 20mm	6,300	10	66252836708	66252837838		
14 x 1/8 x 1" / 20mm	5,400	10	66252835386	66252837841		66243578262
14 x 5/32 x 1" / 20mm	5,400	10			66252832521	
16 x 1/8 x 1" / 20mm	4,800	10		66252830886		
16 x 1/8 x 1"	4,800	10				

See additional Rail Cut wheels on the next page for larger-volume jobs.

TIER: GOOD	GOOD	GOOD	GOOD	GOOD
BRAND: Norton	Norton	Norton	Norton	Norton
TRADENAME: GEMINI DUCTILE HD	GEMINI DUCTILE	GEMINI CONCRETE HD	GEMINI CONCRETE	GEMINI ASPHALT
SHAPE: Type 01/41	Type 01/41	Type 01/41	Type 01/41	Type 01/41
ABRASIVE: Silicon Carbide / Aluminum Oxide Blend	Silicon Carbide / Aluminum Oxide Blend	Silicon Carbide	Silicon Carbide	Silicon Carbide
REINFORCING: 3 Layers	2 Layers	3 Layers	2 Layers	2 Layers
MATERIAL:				

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #	PART #
Type 01/41 Cut-off – for Gas & Electric-Powered Saws							
12 x 1/8 x 1" / 20mm	6,300	10		66252837840		66252837839	70184670243
14 x 1/8 x 1" / 20mm	5,400	10	66252835388	66252837843	66252835387	66252837842	70184672877
16 x 1/8 x 1" / 20mm	4,800	10				70184623029	

RAIL REINFORCED CUT-OFF



The Norton RailCut line is designed for high-speed fixtured hydraulic or gas-powered rail saws.

Applications: Fixed rail track cutting
 Size range: 14" and 16" diameter
 Thickness range: 1/8"
 Grit range: 14 – 16
 Abrasive grain: Zirconia Alumina/Aluminum Oxide Blend, Zirconia Alumina, and Aluminum Oxide
 Shape: Type 01/41 Straight
 Reinforcement: Side reinforced with R (rough) sides
 Speed rating: All wheels are rated for 20,000 SFPM applications
 Machines Used:



CROSS REFERENCE GUIDE AND MACHINE-TO-PRODUCT RECOMMENDATION GUIDE

	BEST	BETTER	GOOD	GOOD
NORTON	RailCut X	RailCut NorZon III	RailCut A30X	RailCut Metal
Bullard Abrasive	Trackmaster Pro ZA24 Q-BF (Blue)	Trackmaster Pro ZA24 Q-BF (Blue)	Trackmaster A30 R-BF (Red)	
DiaTool				RailMaster Rail Cut 27
Flexovit USA	-		A30-PB	
Giesmar	AM303-R	AM303-R	NR242-Q	NR242-Q
Klingspor	A 24 SX Special	A 24 SX Special	-	
Portaco	A30 R-BF	A30 R-BF	-	
Racine Kwik Kut	A24R	A24R	-	

	BEST Highest Productivity; Lowest Total Cost	BETTER Excellent Blend of Performance & Price	GOOD Consistent Performance; Low Initial Price
HYDRAULIC SAW	RailCut X		RailCut A30X, RailCut Metal
GAS SAW			
High-Horsepower / Newer Machine	RailCut X	RailCut NorZon III	RailCut A30X, RailCut Metal
Low-Horsepower / Older Machine	RailCut X	RailCut NorZon III FastCut	RailCut A30X, RailCut Metal

NORTON RAILCUT X ZIRCONIA ALUMINA / A/O BLEND

BEST CHOICE FOR HIGH PERFORMANCE CUTTING OF RAILS ON APPLICATIONS WHERE THE HYDRAULIC OR GAS SAW IS FIXTURED AND HAS ADEQUATE POWER

FEATURES

- High-performance zirconia alumina/ engineered aluminum oxide blend; R (rough) sides

BENEFITS

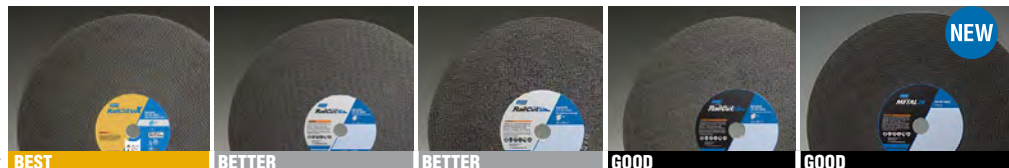
- Expertly cuts a broad range of materials
- Longest lasting and fastest cutting wheels

NORTON RAILCUT METAL ALUMINUM OXIDE

GOOD CHOICE FOR PRICE-SENSITIVE JOBS WITH LOWEST INITIAL PRICE

FEATURES & BENEFITS

- Good choice for small jobs, applications where performance is not measured, and price-sensitive operations
- Great versatility from multi-purpose aluminum oxide abrasive formulated specifically for cutting rail
- Consistent performance at a low initial price



TIER:	BEST	BETTER	BETTER	GOOD	GOOD
TRADENAME:	NORTON RAILCUT X	NORTON RAILCUT NORZON III	NORTON RAILCUT NORZON III FASTCUT	NORTON RAILCUT A30X	NORTON RAILCUT METAL
ABRASIVE:	Zirconia Alumina/ Aluminum Oxide Blend	Zirconia Alumina	Zirconia Alumina	Aluminum Oxide	Aluminum Oxide
SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #
Type 01/41 Cut-Off					
14 x 1/8 x 1	5,400	10	66253337716	66253360493	66253363694
16 x 1/8 x 1	4,800	10	66253335024	66253464607	66253464415
				66253260462	66253259935
					66243482068
					66243482066

WALK-BEHIND REINFORCED CUT-OFF



These powerful, self-propelled machines are designed to cut concrete slabs and asphalt and are normally fitted with diamond blades. For inexperienced operators or small jobs, the machines can accommodate these low initial cost, conventional abrasives wheels.

- Applications: Cutting straight sections of concrete surfaces
 Size Range: 14" and 18" diameter
 Thickness Range: 3/16" – 3/8"
 Abrasive Grain: Silicon Carbide
 Bond: Hot Pressed (HP) – for higher-horsepower machine applications where additional durability is needed, may be used wet or dry
 Cold Pressed (CP) – for lower-horsepower machines, which need a free-cutting wheel
 Shape: Type 01/41 Straight
 Arbor: All are 1" with a drive pin
 Machine Used:

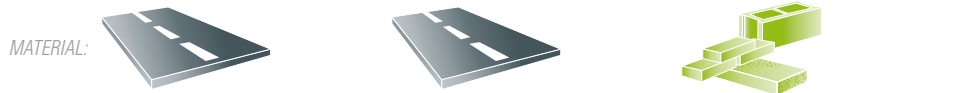


CROSS REFERENCE GUIDE

NORTON	SPECIALITY		
	BETTER	GOOD	GOOD
Gemini Asphalt / Green Concrete – HP	Gemini Asphalt - CP	Gemini Concrete - CP	
Abmast	—	C 16 T. Competitor Asphalt/Concrete	C 24 R
Bullard Blaze & Road Warrior	—	C16R & T, C16R3	—
Camel	—	C16-U	C24-R
Flexovit	HPC16AG	C16 G.P. C16UB	C20SB/C16TB
Husqvarna	Red GC-7A	Black EWC	Gold RTC, Blue RTC, Blue EWC
Pearl	—	—	Premium C36S, Silver Line C24R
Pferd	—	C 24 R SG ASP	C 24 R SG GP
Sait	Street Runner	C16	C24R, Street Walker
Tyrolit	Concrete/Asphalt CHP	Asphalt CP	Concrete CP
Virginia Abrasives	—	GC/Asphalt	Concrete
Walter	—	—	C-24



TIER: BETTER	GOOD	GOOD
BRAND: Norton	Norton	Norton
TRADENAME: GEMINI ASPHALT - HP	GEMINI ASPHALT - CP	GEMINI CONCRETE - CP
SHAPE: Type 01/41	Type 01/41	Type 01/41
ABRASIVE: Silicon Carbide	Silicon Carbide	Silicon Carbide
BOND: Hot Pressed - Long Life	Cold Pressed - Free Cut	Cold Pressed - Free Cut



SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #
Type 01/41 Cut-off – For Walk-Behind Saws					
14 x 3/16 x 1 Pin Hole	4,365	10		70184680324	70184680323
14 x 1/4 x 1 Pin Hole	4,365	5			70184670533
18 x 1/4 x 1 Pin Hole	4,250	5	70184670103	70184670098	



For higher-production applications, optimum speed of cut and product life, please see our diamond blade product offering for walk-behind saws in the Construction Product section of this catalog and the complete offering in our Diamond, Abrasives and Equipment for the Construction Market Catalog #7719 found on www.nortonabrasives.com.

CHOP SAW REINFORCED CUT-OFF



A chop saw is a light, low-horsepower portable machine. Although very similar to a compound miter saw, it is designed for cutting denser materials, like metal bar, tubing or pipe. Chop saw cut-off wheels are designed specifically for this machine with finer grit, softer grades, and reinforcement layers that match the application.

- Applications: Cutting small-diameter metal pieces, bar stock, metal pipe, tubing, decking, cable, drywall studs, and metal plate dimensioning
- Size Range: 10" - 16" diameter
- Thickness Range: 3/32" and 7/64"
- Abrasive Grain: Zirconia Alumina/Aluminum Oxide Blend, Aluminum Oxide, and Diamond
- Shape: Type 01/41 Straight
- Reinforcement Type: Side reinforced, centrally reinforced
- Machine Used:



CROSS REFERENCE GUIDE

NORTON	TOTAL PERFORMANCE			INITIAL PRICE			SPECIALITY	
	BETTER		GOOD			GOOD		
Brilliant	BlueFire Free Cut	BlueFire Rapid Cut	BlueFire Long Life	Gemini Free Cut	Gemini Rapid Cut	Gemini Long Life	Stud Cutter	Gemini Aluminum
Bullard	ZA36T	—	—	Super-G	Tube/Pipe	—	Drywall Stud	Aluminum
Camel	—	—	ZA24-S	TA36T	A36R	A36R	A46T	AL36R
Dewalt	—	—	XP	A46T	The Competitor	Ironmaster	Studmaster	—
Flexovit	—	—	—	The Competitor	—	—	—	—
Makita	—	—	—	A36-P, WA36-P	—	A36-S	A30-R Mr. Stud	A30-N
Pearl	SRT36	—	—	GP, Stainless Fabrication	—	—	Stud Cutting	—
Pferd	—	—	—	A30R Fast Cut	—	A30S Long Life	A30T Drywall Stud	—
Sait	Saitech Steel Worker	Z-tech	—	A30-Q Free Cut	General Purpose	—	—	—
Walter	—	—	—	A36P Premium	A30P Silver Line	—	A46S Stud Cutting	—
				A 36 K SG CHOP	PSF CHOP	—	A 36 K SG-STUD	—
				EZ-Chop	EZ-Chop Attacker	Iron Worker	Stud King	Aluminum
				—	A-30	A-30-HC+	—	A30-ALU

APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

Wheel Type/Reinforcement

TYPE 01/41 STRAIGHT SIDE-REINFORCED CUT-OFF WHEEL

Side-reinforced wheels have two full layers of reinforcing and are designed for a fast cut and the most aggressive applications. All Purpose, Free Cut, and Long Life are side reinforced.



TYPE 01/41 STRAIGHT CENTRALLY-REINFORCED CUT-OFF WHEEL

Centrally-reinforced wheels have a single layer of reinforcing with exposed rough sides for free-cutting, non-binding applications where minimal burr and burn are the key requirements. Rapid Cut wheels are centrally reinforced.



HOW TO PICK THE RIGHT BOND TYPE

All Purpose	Unmarked	Where an excellent blend of cut rate and life is needed
Free Cut	FC	Used when fast, burn-free cutting is desired or when cutting pieces with larger cross sections
Long Life	LL	Where durability is needed due to severe application, and when cutting parts with small cross sections
Rapid Cut	RC	Where a free cutting, non-binding wheel is needed for burn-free and burr-free cuts
High-Performance	STUD	High-performance aluminum oxide/resin bond combination designed for cleaner cuts and longer life when cutting steel studs
Aluminum	ALU	Specially formulated bond for reduced loading/surface contamination when cutting aluminum/soft materials

CHOP SAW REINFORCED CUT-OFF NORTON BLUEFIRE ZIRCONIA ALUMINA / A/O BLEND

BETTER CHOICE FOR STEEL, STAINLESS STEEL AND ALL OTHER FERROUS METALS



FEATURES

- Durable zirconia alumina / premium aluminum oxide abrasive blend
- Free Cut: side reinforced
- Long Life: side reinforced
- Rapid Cut: centrally reinforced, rough sides

BENEFITS

- 2X the life and cut rate of aluminum oxide
- Engineered for larger cross-sections and/or hard-to-cut materials
- Ideal for small cross-section workpieces
- Free cutting, non-binding; burr- and burn-free cuts

NORTON GEMINI ALUMINUM OXIDE

GOOD CHOICE FOR ALL STEEL AND FERROUS METALS AS WELL AS SPECIALTY APPLICATIONS IN ALUMINUM



FEATURES

- Free Cut: side reinforced
- Long Life: side reinforced
- Rapid Cut: centrally reinforced, rough sides
- Aluminum: specially formulated bond for aluminum and other soft, nonferrous metals; no wax or rubber fillers

BENEFITS

- Engineered for larger cross-sections and/or hard-to-cut materials
- Ideal for small cross-section workpieces
- Free cutting, non-binding; burr- and burn-free cuts
- Free cutting; resist loading
- No surface contamination

NORTON METAL STUD CUTTER ALUMINUM OXIDE

GOOD CHOICE FOR DRYWALL STUDS



FEATURES

- Stud Cutter: thin, side-reinforced; with high-performance aluminum oxide abrasive

BENEFITS

- Designed specifically for cutting steel studs

NORTON DIALAST DIAMOND

DESIGNED FOR CUTTING STEEL, METAL STUDS, STAINLESS STEEL, NONFERROUS MATERIALS, TILE, BRICK, PLASTIC AND MUCH MORE



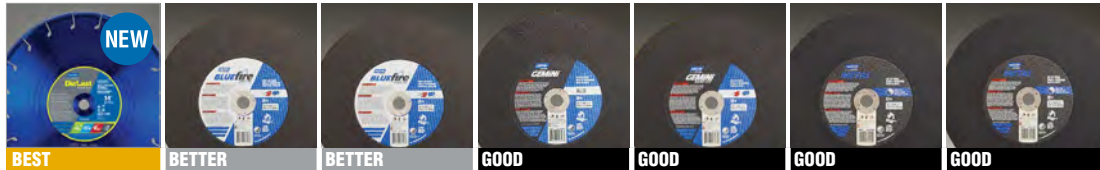
FEATURES

- A combination of high-quality diamond and advanced brazed single-layer bonding technology
- Environmentally friendly grinding
- Engineered with sound-dampening technology

BENEFITS

- Extra-long life vs. conventional abrasives or other vacuum-brazed diamond tools
- Retains the diamond grains and wheel shape for full life with low sparks, while keeping a continuous grinding depth for exceptional wheel life
- Less blade changes reduce downtime and labor costs
- Generates minimal dust for less clean-up and safer working conditions
- Makes the blade environmentally-friendly when cutting indoors or out

CHOP SAW REINFORCED CUT-OFF



TIER:	BEST	BETTER	BETTER	GOOD	GOOD	GOOD	GOOD
TRADENAME:	NORTON DIALAST	NORTON BLUEFIRE	NORTON BLUEFIRE	NORTON GEMINI	NORTON GEMINI	NORTON METAL	NORTON METAL
SHAPE:	Type 01/41	Type 01/41	Type 01/41	Type 01/41	Type 01/41	Type 01/41	Type 01/41
ABRASIVE:	Diamond	Zirconia Alumina/ Aluminum Oxide	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
REINFORCING:		Side	Central	Side	Central	Side	Central
MATERIAL:	STAINLESS	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #	PART #	PART #
Type 01/41 Straight Cut-off								
10 x 7/64 x 1	6,110	10			66253106109 LL			
12 x 7/64 x 1	5,095	10		66252843250	66253207554 LL	66253214561 RC		
	5,095	5					07660789400	
14 x 3/32 x 1	4,365	10			66253306627 FC	66253313588 RC	66252835554	
	4,365	10			66253306626 LL		07660789405 STUD	
	4,365	5 V						07660789399
14 x 7/64 x 1	4,365	10		66252843252 FC	66252843254 RC	66253314816 ALU		
	4,365	10		66252843253 LL				
	4,365	25						07660703970 5-Pk
14 x .155 x 1	5,400	1	70184694053					
16 x 3/32 x 1	3,820	10			66253410198 LL			
16 x 7/64 x 1	3,820	10		66252843256 FC				
	3,820	10		66252843257 LL				




CUT-OFF WHEEL DESCRIPTION CODES					
BLANK = All Purpose	ALU = Aluminum	FC = Free Cut	LL = Long Life	RC = Rapid Cut	STUD = Stud Cutter
■ = Masonry	■ = Stainless	■ = Steel / Metal			



STATIONARY SAW REINFORCED CUT-OFF



The Norton stationary saw reinforced cut-off wheel line consists of Type 01/41 straight 10" - 24" wheels, designed to fit on fixed-base stationary saws that are free-standing or mounted on a workbench.

- Applications:** Primary applications are cutting of all metal parts (flat stock, bars, studs, pipes, tubes, angle iron, cable), wire rope and hydraulic hose used in fabrication, construction and plant maintenance.
- Size Range:** 10" – 20" diameter
- Thickness Range:** 3/32", 1/8", 5/32", 3/16"
- Abrasive Grain:** Zirconia Alumina/Aluminium Oxide Blend, Aluminum Oxide, Silicon Carbide
- Shape:** Type 01/41 Straight
- Machine Used:** 

CROSS REFERENCE GUIDE

	TOTAL PERFORMANCE				INITIAL PRICE	SPECIALITY
	BETTER	GOOD				
NORTON	BlueFire	Gemini Free Cut	Gemini Long Life	Gemini Rapid Cut*	Norton Masonry	Foundry Cut**
Abmast	Z 24 R3	A 30 R	—	—	—	AC 24 R3
Brilliant	—	GP Fast Cut	GPX Long Life	XL , XLX	—	—
Bullard	—	A30-R	A30-T	A300	C20R	—
Camel	ZA24-R	A24-R, A46-T	—	—	C24-R	WA24-S
Flexovit	—	A30RB Multi Purpose	A30SB Long Life, A24TB Long Life	—	C24RB	AC24PB Heavy Duty
Metabo	—	A30N, A30R	A30S, A30V	—	C30S	—
Pearl	SRT36	A30P Premium, A30Q Silver Line	A30S Premium, A36R Premium	—	C24 Silver Line	—
Pferd	ZA 24 Q/R SG-HD	A 24 N/P SG-HD	A 24 Q/S SG-HD	—	C 24 0 SG	—
Sait	—	A24N, A36R	A24R	—	C24R	—
Tyrolit	—	A30BF	—	—	C30BF	—
Walter	—	A-24-FC	A-24-RIP	—	—	—

* For Burr-Free applications, please see centrally-reinforced BlueFire Rapid Cut and Gemini Rapid Cut wheels in Chop Saw cut-off wheel section or at www.nortonabrasives.com

** For Foundry and other cut-off wheels, please refer to that section of this Norton Full Line Catalog #7362 or at www.nortonabrasives.com



TIER:	BETTER	GOOD	GOOD	GOOD
TRADENAME:	NORTON BLUEFIRE	NORTON GEMINI FREE CUT	NORTON GEMINI LONG LIFE	NORTON MASONRY
SHAPE:	Type 01/41	Type 01/41	Type 01/41	Type 01/41
ABRASIVE:	Zirconia Alumina/Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Silicon Carbide
MATERIAL:	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	STAINLESS STEEL/METAL	MASONRY

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #
Type 01/41 Straight Cut-Off						
10 x 3/32 x 5/8	6,110	10	66252843248	66253106101 FC	66253106102 LL	
	6,110	5				07660789391
12 x 1/8 x 1	5,095	10	66252843249		66253207548 LL	
	5,095	5				
14 x 1/8 x 1	4,365	10	66252843251	66253306609 FC	66253306611 LL	
	4,365	5				
16 x 1/8 x 1	3,820	10		66253422942		
16 x 5/32 x 1	3,820	10	66252843255	66253410183 FC	66253410184 LL	
18 x 5/32 x 1	3,015	10		66253410185 FC		
20 x 5/32 x 1	2,710	5	66252843258 FC	69078609031 FC	69078609032 LL	
	2,710	5	66252843259 LL			
20 x 3/16 x 1	2,710	5		69078609033 FC	69078609034 LL	

CUT-OFF WHEEL DESCRIPTION CODES						
BLANK = All Purpose	FC = Free Cut	LL = Long Life	■ = Masonry	■ = Stainless	■ = Steel / Metal	



Foundry cut-off wheels are designed with abrasives, bonds and reinforcement types specific to foundry machine parameters and materials. Most of the specifications are non-stock. This stock listing is designed to provide popular size and starting specifications.

- Size Range: Reinforced: 14" – 30" diameter; Non-reinforced: 12" – 20" diameter
 Grit Range: 24 – 46 grit
 Abrasive Grain: Ceramic Alumina (Norton Quantum; non-stock only), Zirconia Alumina, Aluminum Oxide
 Reinforcement: Reinforced: Engineered with strengthening fabric or filaments, which make wheels resistant to cross-bending breakage. All portable cut-off, swingframe, locked-head push-through and foundry chop stroke operations require reinforced cut-off wheels.
 B: One or more full diameter pieces of filament molded inside each wheel. This construction leaves the abrasive exposed on the side of the wheel, improving freeness of cut. Used for fixed work operations with low probability of side pressure.
 N: Full diameter pieces of reinforcement on the side of the wheel. Offers greatest possible resistance to side pressure and bending.
 Non-Reinforced: Designed for use on fixed-base types of machines where the work is securely clamped and guarded, and where the wheel operates on a controlled cutting plane.
 W: Reinforcement around the center hole only. These wheels are not considered to be truly reinforced.
 Side Patterns: Smooth sides: Used for precision cutting applications
 Rough (R) sides: Abrasive particles protrude from sides of wheel
 Used wet or dry on most metals

MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

	BEST Highest Productivity; Lowest Total Cost	BETTER Excellent Blend of Performance & Price	GOOD Consistent Performance; Low Initial Price
INVESTMENT CAST ALLOYS			
Stainless Steel	Foundry X Quantum	Foundry X BlueFire	Foundry Metal
Titanium	Foundry X Quantum	Foundry X BlueFire	Foundry Metal
CAST IRON	Foundry X Quantum	Foundry X BlueFire	Foundry Metal
CAST STEEL			
Carbon and Low Alloy	Foundry X Quantum	Foundry X BlueFire	Foundry Metal
Stainless Steel and High Alloy	Foundry X Quantum	Foundry X BlueFire	Foundry Metal
Aluminum Alloy	Foundry X Quantum	Foundry X BlueFire	Foundry Metal
Copper Alloys, Brass, Bronze	Foundry X Quantum	Foundry X BlueFire	Foundry Metal

Foundry X Quantum wheels are custom, made-to-order to your exact requirements. Contact your Norton representative for recommendations, quotations, and lead-times.

CROSS REFERENCE GUIDE

	TOTAL PERFORMANCE ←		INITIAL PRICE →	
	BEST	BETTER	GOOD	GOOD
NORTON	Foundry X Quantum and B97 (Non-stock; custom-made to your exact requirements)	Foundry X BlueFire	Foundry X	Foundry Metal
Allison	TA362 R6 8045HA, YW462 MR B2HA	TA302-T6-B6HA, A46-T6-BX5T6A, HF 1247 K – CHALLENGER		Economiser
Avery		TA30-V680	A 3226 C7A, C11922 W071	92871H
Buckeye		Steel Shark		
DiaTool	BV1734R 710	BV 1397-5284-C		
Flexovit		ZAX30TB	A24PB, A30RB	
Klingspor	20A24-QBF		T 1584 HA	
NATAB				
Rappold		6Z30U-B3F2		

NORTON FOUNDRY X BLUEFIRE REINFORCED

BETTER CHOICE ON STAINLESS STEEL, AEROSPACE ALLOYS, CAST IRON, AND STEEL

FEATURES

- Durable zirconia alumina/aluminum oxide blend with Foundry X bond technology

BENEFITS

- Excellent value on stainless steel and exotic aerospace alloys
- More aggressive; can withstand demanding applications
- Improved durability and heat resistance result in longer abrasive life, showing up to 80% better G-ratios (material removed/wheel wear); cost effective wheels



NORTON FOUNDRY X ALUMINUM OXIDE

GOOD CHOICE ON GENERAL PURPOSE APPLICATIONS



FEATURES

- Strong aluminum oxide abrasive with Foundry X bond technology

BENEFITS

- Consistent performance
- Tough and versatile abrasive
- Low initial price

NORTON FOUNDRY METAL ALUMINUM OXIDE

GOOD CHOICE FOR PRICE-SENSITIVE JOBS WITH LOWEST INITIAL PRICE



FEATURES & BENEFITS

- Good choice for small jobs, applications where performance is not measured, and price-sensitive operations
- Great versatility from multi-purpose aluminum oxide abrasive formulated specifically for typical foundry cutting applications
- Lowest initial price
- Consistent performance

Reinforced

TIER: **BETTER**
 BRAND: Norton
 TRADENAME: **FOUNDRY X BLUEFIRE**
 ABRASIVE: Zirconia Alumina/ Aluminum Oxide



TIER: **GOOD**
 BRAND: Norton
 TRADENAME: **FOUNDRY X**
 ABRASIVE: Aluminum Oxide



TIER: **GOOD**
 BRAND: Norton
 TRADENAME: **FOUNDRY METAL**
 ABRASIVE: Aluminum Oxide

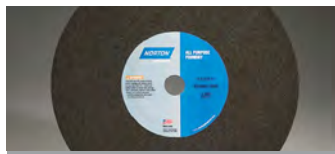


SIZE (D x T x H)	MAX. RPM	STD. PKG.	SPEC.	PART #	SPEC.	PART #	SPEC.	PART #
Type O1/41 Straight Cut-off – Foundry Reinforced								
14 x 1/8 x 1	4,365	10	NV24-TB75N	66253347674	U57A30-TB75N	66253345779	Side Reinforced	66243485918
	4,365	10	NV24-VB75N	66253179193	U57A30-VB75N	66253179191		
	4,365	10	NV24-YB97N	66253347698	U57A30-YB97N	66253347692		
16 x 5/32 x 1	3,820	10	NV24-TB75N	66253347676	U57A30-TB75N	66253345781	Side Reinforced	66243485919
	3,820	10	NV24-VB75N	66253179147	U57A30-VB75N	66253179148		
	3,820	10	NV24-YB97N	66253347693				
20 x 5/32 x 1	2,710	10	NV24-TB75N	66253347683	U57A30-TB75N	66253347546	Side Reinforced	66243485920
	2,710	10	NV24-VB75N	66253179363	U57A30-VB75N	66253179364		
	2,710	10	NV24-YB97N	66253347694	U57A30-YB97N	66253347701		
20 x 3/16 x 1	2,710	10	NV24-TB75B	66253347684	U57A30-TB75B	66253347547	Centrally Reinforced	66243485921
	2,710	10	NV24-VB75B	66253179366	U57A30-VB75B	66253179367		
	2,710	10	NV24-YB97B	66253347699	U57A30-YB97B	66253347702		
24 x 7/32 x 1-3/4	2,260	10	NV24-TB75B	66253347685				
	2,260	10	NV24-VB75B	66253179374	U57A30-VB75B	66253179375		
	2,260	10	NV24-YB97B	66253347697				
30 x 1/4 x 1-3/4	1,810	10	NV24-TB75B	66253347722	U57A30-TB75B	66253347720		
	1,810	10	NV24-YB97B	66253347723	U57A30-YB97B	66253347721		

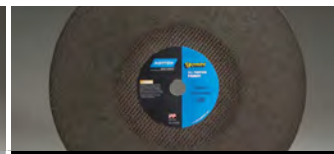
Specifications ending in "B" are centrally reinforced; specifications ending in "N" are side reinforced.

Non-Reinforced

TIER: **BETTER**
 BRAND: Norton
 TRADENAME: **U57A**
 ABRASIVE: Aluminum Oxide



TIER: **GOOD**
 BRAND: Norton
 TRADENAME: **GEMINI**
 ABRASIVE: Aluminum Oxide



SIZE (D x T x H)	MAX. RPM	STD. PKG.	SPEC	PART #	SPEC	PART #
Type O1/41 Straight Cut-off – Foundry Non-Reinforced R-Sides						
12 x 3/32 x 1	5,095	10	U57A461-PB25	66253261887		
16 x 1/8 x 1	3,820	10			AP	66253422942
20 x 1/8 x 1	2,710	10	U57A304-VB25W	69078665497		

Ask your Norton representative about our custom, made-to-order Norton Foundry X Quantum ceramic alumina wheels for high alloys, stainless steel, and aerospace applications.

CUT-OFF WHEEL DESCRIPTION CODES

AP = All Purpose

Where a good blend of cut rate and life is needed



Reinforced and non-reinforced engineered cut-off wheels for cutting all types of tool steel with fixed-based cut-off machines.

Applications:

Reinforced cut-off wheels are designed to resist breakage caused by severe cross-bending and are required on any operation where the work is not securely clamped.

Non-Reinforced cut-off wheels are designed for use on fixed-based machines where the work is securely clamped, guarded, and where the wheel operates on a controlled cutting plane.

Size range:

6" – 12" diameter

Grit range:

36 – 90 grit

Abrasive grain:

Aluminum Oxide

Bond:

Resinoid, Rubber, and Shellac

Shape:

Type 01/41 Straight

CROSS REFERENCE GUIDE

	BETTER		
NORTON	Reinforced A60-OBNA2	Reinforced 57A364-TB25N	Non-Reinforced 57A60-M8B
Bates	A602-T-BF	A36-R-BF	-
Buffalo	A60-R-BF2	-	-
Dia. Tool	A80-SP	A46-SP	-
Radiac	A54-N6-B20	-	A54-N6-B20
Tyrolit	A60-QBF38A2	-	-

TECH TIP

- Smooth side pattern – Used when a precise thickness tolerance is needed
- Rough (R) side pattern – Abrasive particles protrude from sides of wheel

TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSES	SUGGESTED CORRECTION
Poor cut rate	Insufficient power used	Increase feed or pressure to full power
	Wheel too hard	Use softer grade, or thinner wheel
	Contact area too large	Reduce contact area
	Wheel too coarse	Use finer grit
	Wheel side out of truth	Check spindle runout
Non-square cuts	Work not clamped properly	Check clamp and clean to remove swarf
	Misaligned spindle bearings	Check for bearing truth and alignment
	Poor coolant distribution	Ensure equal volume of coolant to each wheel side
	Wheel is too hard	Use softer acting wheel: softer grade, or finer grit
Workpiece burn	Insufficient feed rate	Work machine to maximum power available
	Poor coolant flow	Increase volume and direct at cutting point
	Wheel is too coarse	Use finer grit or more machine power
	Wheel is too hard	Use softer grade wheel
	Wheel is running out	Check spindle and flanges
	Wheel speed is too slow	Ensure tight flanges and maximum safe operating speed being used
Poor finish	Too much burr	Use finer grit, or softer grade
	Wheel too coarse	Use finer grit

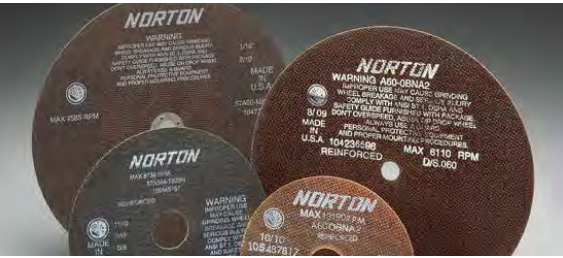
TECH TIP

- Wheels with a "W" reinforcement (reinforcement around the hole) are not considered to be truly reinforced.
- Clamp or fixture the workpiece for straightest cuts.
- Run wheels at the highest possible speed marked on the wheel and make cuts as quickly as possible. Do not overspeed wheels.
- It is recommended that a cut-off machine should have 1 horsepower for every inch of wheel diameter. For less than this, we recommend using a softer specification.
- Using a harder grade wheel increases wheel life, but it also increases burn, power required and decreases cut rate.
- Using a coarser grit wheel increases wheel life and cut rate, but it also increases burr and power required.

TOOLROOM CUT-OFF

TOOLROOM REINFORCED ALUMINUM OXIDE

BETTER CHOICE FOR CUTTING TOOL STEEL ON FIXED-BASED MACHINES WHEN WORK IS NOT SECURELY CLAMPED



FEATURES

- OBNA2 full side reinforced, resin bond
- B25N full side reinforced, resin bond

BENEFITS

- Yields maximum cut rate and minimum kerf loss; ideal when thin cut is desired
- Versatile; durable, free cutting; offer greatest stiffness

SIZE (D x T x H)	MAX. RPM	STD. PKG.	TIER: BETTER	
			SPEC.	PART #
Type 01/41 Straight Cut-off – Reinforced				
6 x .035 x 1/2	10,190	25	A60-OBNA2	66252835053
6 x .035 x 1-1/4	10,190	25	A60-OBNA2	66252835055
6 x .060 x 1/2	10,190	25	A60-OBNA2	66252835164
6 x .060 x 1/2	10,190	25	57A364-TB25N	66252822969
6 x .060 x 1-1/4	10,190	25	A60-OBNA2	66252835165
7 x .035 x 1/2	8,730	25	A60-OBNA2	66252938786
7 x .035 x 1-1/4	8,730	25	A60-OBNA2	66252938788
7 x .060 x 1/2	8,730	25	A60-OBNA2	66252938816
7 x .060 x 1-1/4	8,730	25	A60-OBNA2	66252938796
7 x .060 x 1-1/4	8,730	25	57A364-TB25N	66252922676

SIZE (D x T x H)	MAX. RPM	STD. PKG.	TIER: BETTER	
			SPEC.	PART #
Type 01/41 Straight Cut-off – Reinforced				
8 x .035 x 1/2	7,640	25	A60-OBNA2	66253043014
8 x .035 x 1-1/4	7,640	25	A60-OBNA2	66253042980
8 x .060 x 1/2	7,640	25	A60-OBNA2	66253043009
8 x .060 x 1-1/4	7,640	25	A60-OBNA2	66253042983
8 x .060 x 1-1/4	7,640	25	57A364-TB25N	66253022705
10 x .060 x 5/8	6,110	25	A60-OBNA2	66253149317
10 x .060 x 1-1/4	6,110	25	A60-OBNA2	66253149186
12 x .060 x 1	5,095	10	A60-OBNA2	66253261811
12 x .075 x 1	5,095	10	A60-OBNA2	66253261910
12 x .075 x 1-1/4	5,095	10	A60-OBNA2	66253261858

TOOLROOM NON-REINFORCED ALUMINUM OXIDE

BETTER CHOICE FOR CUTTING TOOL STEEL ON FIXED-BASED MACHINES WHEN THE WORK IS SECURELY CLAMPED



FEATURES

- B bond (smooth sides)
- B25 bond (smooth sides)
- E7 bond (smooth sides)
- R30 bond (smooth sides)

BENEFITS

- A mild acting resin bond for light cut-off applications
- A versatile, free-cutting, more durable resin bond
- Ideal for dry cutting metal in high production runs
- A shellac bond with very mild cutting action, recommended for highly critical applications where no burr, heat checks, or discoloration is permitted
- Mild acting rubber bond primarily for wet, ultra-thin cutting

SIZE (D x T x H)	MAX. RPM	STD. PKG.	TIER: BETTER	
			SPEC.	PART #
Type 01/41 Straight Cut-off – Non-Reinforced				
6 x .015 x 1-1/4	6,370	25	57A90-ROR30	66252822953
6 x .020 x 1-1/4	6,370	25	57A90-ROR30	66252822954
6 x .035 x 1-1/4	6,370	25	57A60-M8B	66252822958
6 x .060 x 1/2	7,640	25	57A541-RB25	66252822970
6 x .060 x 1-1/4	7,640	25	57A60-M8B	66252822975
7 x .035 x 1-1/4	5,460	25	57A60-M8B	66252922983
			57A60-O8B	66252922986
			57A60-Q8B	66252922987
7 x .035 x 1-1/4	5,460	25	57A601-PB25	66252922988
			57A601-RB25	66252922989
			57A601-RB25	66252922985
7 x .035 x 1-1/4	5,185	25	57A60-OE7	66252922985
7 x .035 x 1-1/4	5,460	25	23A601-PB25	66252938701
7 x .050 x 1-1/4	5,460	25	23A601-PB25	66252938724*
7 x .060 x 1/2	6,550	25	57A60-O8B	66252922672

*Exception: rough sides

SIZE (D x T x H)	MAX. RPM	STD. PKG.	TIER: BETTER	
			SPEC.	PART #
Type 01/41 Straight Cut-off – Non-Reinforced				
7 x .060 x 1-1/4	6,550	25	57A46-M8B	66252922677
			57A60-M8B	66252922681
			57A60-O8B	66252922684
7 x .090 x 1-1/4	6,550	25	57A60-OE7	66252922683
			57A60-M8B	66252922690
7 x .125 x 1-1/4	6,550	25	57A60-M8B	66252922692
8 x .035 x 1-1/4	4,775	25	57A60-N8B	66253022694
8 x .060 x 1/2	5,730	25	57A60-M8B	66253022702
8 x .060 x 1-1/4	5,730	25	57A60-M8B	66253022708
8 x .060 x 1-1/4	4,540	25	57A60-OE7	66253022709
10 x .060 x 5/8	4,585	25	57A46-Q8BW	66253122816
			57A60-M8BW	66253122818
10 x .090 x 5/8	4,585	25	57A60-M8BW	66253122824

the NEW Norton Clipper brand **HITS THE PAVEMENT CONFIDENTLY**

The leader for diamond blades, tools, and light machines for construction and cutting materials is “Redefining Jobsite Muscle – Rugged. Reliable. Affordable.”



4X4 MaxCut High-Speed Blades

A new level of high-speed cutting versatility. Our new bond and diamond specification improve blade life on a wide range of materials, excelling in steel.



Infiltrated High-Density Cup Grinders

A revolutionary product, the iHD cup grinders offer a unique segment design, low vibration levels, and enhanced comfort on your right angle grinder.



Get to the Core of the Matter

Get a BIT more from the innovative Norton Clipper Paradigm design. Our turbo segment permits the core to penetrate the toughest cured concrete, quickly and easily.



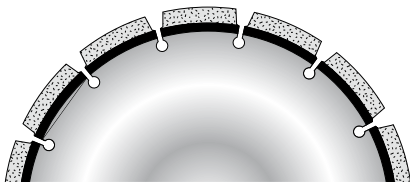
With faster cut rates, constant depth of cut, and less downtime, Norton diamond blades are the choice of professionals versus conventional abrasive blades. Norton diamond blades are available for high-speed saws, portable hand-held saws, and walk-behind saws. For the full offering of diamond blades, see the Norton Construction Products Catalog #7719.

- Applications: Cutting concrete, stone, tile, and other building materials
 Size Range: 4" – 18"
 Thickness Range: .080" – .375"
 Segment Height Range: .210" – .550"
 Abrasive Grain: Diamond
 Mounting Options: 1"/20mm universal arbor, 7/8"-5/8"-20mm, DM-7/8"-5/8", 5/8"-11
 Shape: Type 01
 Machines Used:



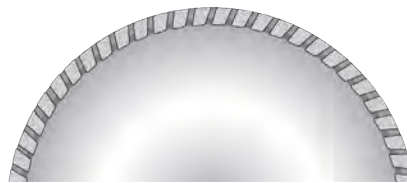
DIAMOND BLADE RIM TYPES

There are three main diamond blade rim types: segmented, turbo, and continuous rim.



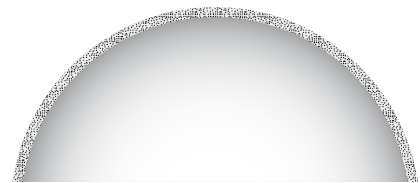
Segmented

- Most aggressive cutting action for general-purpose and masonry applications
- Use when cutting speed and productivity are more important than finish
- Best life, best cut rate, good finish



Turbo

- Aggressive cutting action with a smoother quality of cut than segmented rim blades
- For use on harder materials, such as granite, marble, and stone to reduce chipping
- Better life and cut rate, better finish



Continuous

- Provides the smoothest of cuts
- Best performance when used wet
- Use on porcelain, tile, marble, and other hard materials requiring a high-quality cut
- Good life, good cut rate, best finish

MATERIAL / APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

Icon	Description	Application
	Multi-Purpose, All Materials	Concrete, reinforced concrete, granite, building materials, thin steel sections, angle iron up to 1/2" material thickness, rebar up to no. 5.
	Natural Stone and Tiles	Ceramic and stone tiles, granite, marble, very hard bricks and other very hard and dense materials.
	Reinforced Concrete and Harder Building Materials	Reinforced concrete, hard bricks, limestone, terrazzo, and other hard materials.
	General Purpose and Masonry Building Materials	Blocks, medium-hard building bricks, paving slabs, concrete roof tiles and other medium-hard materials.
	Asphalt	Asphalt, green concrete, asphalt over concrete, abrasive blocks, mortar and other abrasive materials.

DIAMOND PERFORMANCE TIERS

- 5 **Best**
Best Performance
- 4 **Better**
High Performance
- 3 **Value and Good**
Consistent Performance
- 2
- 1

TECH TIP

- Never twist or turn a segmented wheel in the cut because it may result in segment breakage
- Never use wet wheels dry
- Remove dry wheels from cut for 10 seconds of each minute of cut to air cool
- Never operate any saw, wet or dry, without the blade guard



It is the user's responsibility to refer to and comply with ANSI B7.1

DIAMOND BLADES – HIGH-SPEED SAWS

For Reinforced Concrete and Harder Building Materials

DRY – Segmented Rim  



DUO EVO

The unique shape of the DUO EVO segments optimizes the angle of attack while enhancing the evacuation of the debris. With a new manufacturing process, the DUO EVO segments provide an exceptional cutting speed for optimum performance and increased life up to 20% over the original DUO EVO design.

SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
12 x .110 x 1"/20mm	.472"	6300	DUOEVO12110	70184684217 4
14 x .118 x 1"/20mm	.590"	5460	DUOEVO14118	70184684218 1
16 x .125 x 1"/20mm	.472"	4500	DUOEVO16125	70184684549 6



DUO

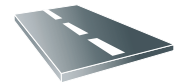
Our exclusive design has become a dominant name in the market. The unique dual segment per land technology provides excellent cutting speed with low vibration and high comfort of cut. The exclusive arrow shape gullets not only indicate blade direction, but also assist in fast removal of cutting debris. Maximum general purpose performance when cutting medium to low reinforcement, hard materials.

SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
12 x .110 x 1/20mm	.393"	6300	DUO12110	70184683611 1
14 x .110 x 1/20mm	.393"	5460	DUO14110	70184683612 8
14 x .110 x 1/20mm	.393"	5460	DUO14110 6PK	70184684430 7
14 x .110 x 1/20mm	.393"	5460	DUO14110 12PK	70184684431 4
14 x .125 x 1/20mm	.393"	5460	DUO14125	70184683613 5
14 x .125 x 1/20mm	.393"	5460	DUO14125 6PK	70184684432 1
14 x .125 x 1/20mm	.393"	5460	DUO14125 12PK	70184684433 8
16 x .125 x 1/20mm	.393"	4500	DUO16125	70184683798 9



For Asphalt and Abrasive Materials

DRY – Segmented Rim  



DUO ASPHALT

Dry cutting laser welded blade for asphalt and green concrete. Laser welded drop segment wear-retardant extends blade life. Scoop gullets for faster swarf removal increases cut speed. Stroboscopic indicators to control cut depth and show rotation direction.

SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
12 x .110 x 1/20mm	.393"	6300	DUOASP12125	70184684543 4
14 x .125 x 1/20mm	.393"	5460	DUOASP14125	70184684315 7
16 x .125 x 1/20mm	.393"	4500	DUOASP16125	70184684544 1



DUO ABRASIVE

Utilizes the basic characteristics of original DUO blade and adds a unique segment shape that optimizes the angle of attack while enhancing the evacuation of the particles. The result is an exceptional cutting speed allied with very good performance and life in abrasive materials and concrete block. The bond specification lends additional life when high-speed cutting.

SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
14 x .110 x 1/20mm	.393"	5460	DUOAB14110	70184684291 4
14 x .125 x 1/20mm	.393"	5460	DUOAB14125	70184684292 1



For General-Purpose and Masonry Building Materials

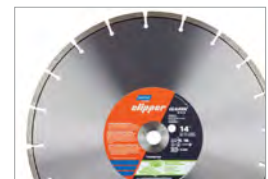
DRY – Segmented Rim  



NORTON CLASSIC

The improved bond provides longer life at an economical price in medium hard materials such as concrete with light to medium reinforcement.

SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
12 x .110 x 1/20mm	.275"	6300	COHSGP1220	70184681383 9
14 x .110 x 1/20mm	.275"	5460	COHSGP1420	70184681309 9
14 x .125 x 1/20mm	.275"	5460	COHSGP1420P	70184684268 6
16 x .125 x 1/20mm	.275"	4500	COHSGP1620	70184640356 6



VALUPLUS

For value and performance on small- to medium-size jobs. The sintered blade cuts unreinforced soft-to-medium concrete fast on saws up to 13 HP.

SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
12 x .110 x 1/20mm	.393"	6300	VPHSGP1220	70184684180 1
14 x .110 x 1/20mm	.393"	5460	VPHSGP1420	70184684181 8
14 x .110 x 1/20mm	.393"	5460	VPHSGP1420 20PK	70184684428 4



DIAMOND BLADES – HIGH-SPEED SAWS

Multi-Purpose, For All Materials

Dry – Segmented Rim +



4x4 MAX CUT



Taking high-speed cutting versatility to an all new level. The same standard features as the 4X4 with its anti-crack gullets and patented depth indicators that not only cool the blade but also allow the operator to know how deep they are cutting. An all new bond and diamond specification improves blade life in a wide range of materials while excelling in steel. New segment wear indicators give the operator an idea of remaining blade life.

SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
12 x .118 x 1/20mm	.472"	6300	4X4MC12118	70184645927 3
14 x .125 x 1/20mm	.472"	5460	4X4MC14125	70184645926 6



4x4



Multi-purpose laser welded blade for dry cutting a range of construction materials without sacrificing performance or price. Depth of cut is easily controlled with the patented depth-of-cut indicators cut into the steel core. Anti-crack gullets for enhanced safety cutting steel and metal (up to 5mm thick).

SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
12 x .110 x 1/20mm	.393"	6300	4X412110	70184684548 9
14 x .125 x 1/20mm	.393"	5460	4X414125	70184684547 2
16 x .125 x 1/20mm	.393"	4500	4X416125	70184645306 6



3x3



It's everything expected for high-speed cutting when both performance and price are a factor. The laser welded 3X3 cuts concrete, reinforced concrete, asphalt and abrasive building materials and more. High quality diamond increases the speed of cut on a variety of materials without changing blades. Premium blade characteristics and price point where it would take normally multiple sintered blades to achieve.

SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
12 x .118 x 1/20mm	.314"	6300	3X312118	70184647500 6
14 x .118 x 1/20mm	.314"	5460	3X314118	70184647499 3



TECH TIP

High-Speed Hand Saw Blades – Maximum Blade Cutting Depths and Recommended Operating Speeds

Note: Diamond blade cutting depths listed are approximate. Actual cutting depth will vary with the exact blade diameter or saw type, or the exact diameter of the blade flanges. Cutting depth will also be reduced if saw components extend below the blade flanges.

BLADE DIAMETER	CUTTING DEPTH	MAXIMUM SPEED (RPM)
12	4	6,300
14	5	5,460
16	6	4,500



It is the user's responsibility to refer to and comply with ANSI B7.1

DIAMOND BLADES – HAND-HELD SAWS

For Reinforced Concrete and Harder Building Materials

DRY – Crack Chasing 



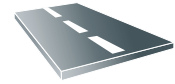
CHARGER 
A heavy V-shaped segment designed with a special bond and diamond content for maximum removal of grout, mortar jointing, crack chasing and crack widening. Fast cutting and long life in abrasive materials using portable tools. Highly competitive to others of its kind in the market.




SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
4 x .375 x 7/8-5/8-20mm	.550"	15000	CGCC0400	70184683856 6
7 x .375 x 7/8-5/8-20mm	.550"	8730	CGCC0700	70184683859 7

For Asphalt and Abrasive Materials

Dry – Tuck Pointing 



NORTON CLASSIC 
An economical solution for small to medium tuck pointing jobs. High quality performance for heavy grout removal or mortar jointing. The heavy-duty wide segment reduces wear in abrasive materials.



SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
4 x .250 x 7/8-5/8-20mm	.275"	15000	CHTUCK0400	70184681776 9
4-1/2 x .250 x 7/8-5/8-20mm	.275"	13300	CHTUCK0450	70184681777 6
5 x .250 x 7/8-5/8-20mm	.275"	12,225	CHTUCK0500	70184681778 3
7 x .250 x 7/8-5/8-20mm	.275"	8730	CHTUCK0700	70184681779 0
8 x .250 x 7/8-5/8-20mm	.275"	7640	CHTUCK0800	70184681780 6

For General-Purpose and Masonry Building Materials

Dry – Segmented Rim 



CHARGER 
High-performance dry cutting of a variety of materials. The segment specification allows extended life and fast cut for medium to large jobs.



SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
4 x .080 x 7/8-5/8-20mm	.393"	15000	CGDSEG0400	70184681505 5
4-1/2 x .080 x 7/8-5/8-20mm	.393"	13300	CGDSEG0450	076607 04021 3
5 x .080 x 7/8-5/8-20mm	.393"	12,225	CGDSEG0500	70184682851 2
6 x .080 x 7/8-5/8-20mm	.393"	10185	CGDSEG0600	70184683820 7
7 x .090 x DM-7/8-5/8	.393"	8730	CGDSEG0700	07660704020 6
8 x .090 x DM-7/8-5/8	.393"	7640	CGDSEG0800	70184681513 0
9 x .090 x 7/8-5/8"	.393"	6600	CGDSEG0900	70184669483 4

VALUPLUS 
For value and performance on small- to medium-size jobs cutting soft abrasive materials like brick and tile. The sintered rim delivers a quality cut and good life.



SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
4 x .080 x 7/8-5/8-20mm	.275"	15000	VPSEG0400	70184684098 9
4-1/2 x .080 x 7/8-5/8-20mm	.275"	13300	VPSEG0450	70184684099 6
7 x .090 x DM-7/8-5/8	.275"	8730	VPSEG0700	70184684100 9

Dry – Turbo Rim 

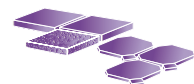
CHARGER 
Combines the characteristics of standard Charger blade with a turbo rim configuration for cutting hard, dense materials with minimal effort. A better bond and diamond concentration for maximum cutting speed, life and quality of cut.



SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
4 x .080 x 7/8-5/8-20mm	.394"	15000	CGTURB0400	07660705475 3
4-1/2 x .080 x 7/8-5/8-20mm	.394"	13300	CGTURB0450	07660704023 7
5 x .080 x 7/8-5/8-20mm	.394"	12,225	CGTURB0500	70184682853 6
6 x .080 x 7/8-5/8-20mm	.394"	10185	CGTURB0600	70184683821 4
7 x .090 x DM-7/8-5/8	.394"	8730	CGTURB0700	07660704022 0
8 x .090 x DM-7/8-5/8	.394"	7640	CGTURB0800	70184681512 3

For Natural Stone and Tiles

Dry – Continuous Rim 



NORTON CLASSIC 
An economical solution for small- to medium-size jobs cutting softer ceramic tile and stone materials with efficient cutting ability.



SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
4 x .080 x 7/8-5/8-20mm	.275"	15000	CON4DT	07660702793 1
4-1/2 x .080 x 7/8-5/8-20mm	.275"	13300	CON45DT	07660701194 7
7 x .090 x DM-7/8-5/8	.275"	8730	CON7DT	07660702788 7

DIAMOND BLADES – WALK-BEHIND SAWS

For Reinforced Concrete and Harder Building Materials

WET – Medium Aggregates



CHARGER The steel core is designed to keep the cut straight while the .410" segment height prolongs cutting wear. Suitable for cutting medium aggregates with up to 35 HP flat saws.

SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	POWER	PART #	UPC #
14 x .125 x 1	.410"	4365	35hp	CGWCMD1412	70184681366 2
18 x .125 x 1	.410"	3395	35hp	CGWCMD1812	70184681368 6



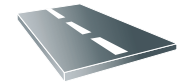
NORTON CLASSIC Laser welded blade at an economical price for general purpose cutting of cured concrete, medium hard aggregate and no steel reinforcement. The bond and diamond combination allow fast cutting action on limited horse powered flat saws.

SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	POWER	PART #	UPC #
14 x .125 x 1	.326"	4365	35hp	CHWCGP1412	70184681359 4
18 x .125 x 1	.326"	3395	35hp	CHWCGP1812	70184681361 7



For Asphalt and Abrasive Materials

DRY – Green/Cured Concrete



GMAX – MULTI-PURPOSE Designed specifically for our GC55/GC25E down-cut green concrete push saw, the GMAX Multi-Purpose blade is excellent in both green and cured concrete. The unique segment specification and anchor slot gullet allows this blade to be used in a variety of applications with outstanding results.

SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	POWER	PART #	UPC #
8 x .095 x 7/8-5/8	.295"	8730	6hp	NXDGRN0895	70184683758 3
9 x .110 x 7/8-5/8	.295"	6600	6hp	EE9110	70184675125 4
10 x .110 x 1-7/8-5/8	.295"	6115	6hp	EE10110	70184684508 3



WET – Asphalt

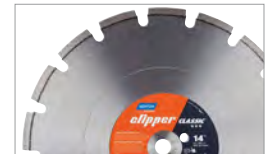
CHARGER For large road and construction jobs with saws up to 35 HP. Higher diamond content increases productivity and offers faster cutting and longer life in asphalt and green concrete applications.

SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	POWER	PART #	UPC #
14 x .125 x 1	.326"	4365	35hp	CGWASP1412	70184681478 2
18 x .125 x 1	.326"	3395	35hp	CGWASP1812	70184681479 9



NORTON CLASSIC An economical choice for fast cutting and good life when performing jobs in a variety of abrasive materials such as green concrete and asphalt on saws up to 35 HP.

SIZE (D x T x H)	SEGMENT HEIGHT	MAX RPM	POWER	PART #	UPC #
14 x .125 x 1	.326"	4365	35hp	CHWASP1412	70184681375 4
18 x .125 x 1	.326"	3395	35hp	CHWASP1812	70184681376 1



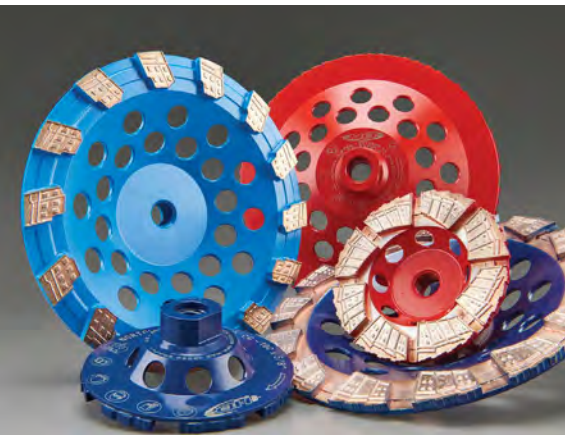
TECH TIP

Walk-Behind Saw Blades – Maximum Blade Cutting Depths and Recommended Operating Speeds

Note: Diamond blade cutting depths listed are approximate. Actual cutting depth will vary with the exact blade diameter or saw type, or the exact diameter of the blade flanges. Cutting depth will also be reduced if saw components extend below the blade flanges.

BLADE DIAMETER	CUTTING DEPTH	IDEAL SPEED (RPM)	MAXIMUM SPEED (RPM)
8"	2"	4,536	7,640
9"	2-1/2"	2,640	6,600
10"	3"	2,446	6,115
14"	4-5/8"	2,592	4,365
18"	6-5/8"	2,016	3,395

It is the user's responsibility to refer to and comply with ANSI B7.1



Norton cup grinders are available in a range of specifications and diameters providing a solution for a number of applications in the building and construction industry. There are many benefits to diamond grinding. It's very fast, low-cost and creates little noise compared to other concrete cutting options. It has become a very popular choice in the commercial construction and DIY home improvement industries.

- Applications: Used on right angle grinders to grind concrete, stone and masonry materials.
 Size Range: 4" – 7"
 Segment Height Range: .177", .210"
 Abrasive Grain: Diamond
 Mounting Options: 5/8"-11 attachment optimized for all popular angle grinders, 7/8-5/8"-20mm
 Options: Standard – single row or double row available
 iHD (Infiltrated High-Density) has thicker body, larger ventilation holes for better cooling
 Machines Used:

General-Purpose and Masonry Building Materials

Dry – Cup Grinder

NORTON CLIPPER 3X3 WITH IHD TECHNOLOGY				
The Norton 3X3 cup grinder ensures very high material removal rate, extreme comfort while working without vibrations and a self-sharpening feature. These new iHD cups offer the best finishing and longest life even on softer, more abrasive materials.				
SIZE (D x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
4" x 5/8"-11	.177	15,000	3X3CG0400	70184601763
5" x 5/8"-11	.177	12,225	3X3CG0500	70184601766
7" x 5/8"-11	.177	8,730	3X3CG0700	70184601769

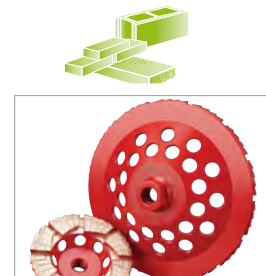
NORTON CLIPPER CHARGER WITH IHD TECHNOLOGY				
The Norton Charger cup grinder ensures a high material removal rate and more comfortable work. These new iHD cups provide a better finish and long life on a wide range of materials.				
SIZE (D x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
4" x 5/8"-11	.177	15,000	CGCG0400	70184601762
5" x 5/8"-11	.177	12,225	CGCG0500	70184601765
7" x 5/8"-11	.177	8,730	CGCG0700	70184601768

NORTON CLIPPER CLASSIC WITH IHD TECHNOLOGY				
The Norton Classic cup grinder provides efficient material removal rate thanks to the small contact surfaces of the segments. The cups also have flat sides to avoid damaging walls or ceilings during flush grinding.				
SIZE (D x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
4" x 5/8"-11	.177	15,000	CCCG0400	70184601761
5" x 5/8"-11	.177	12,225	CCCG0500	70184601764
7" x 5/8"-11	.177	8,730	CCCG0700	70184601767

NORTON CLASSIC				
Available in a range of sizes and segment designs for optimum performance by life or by speed. Ideal for levelling all types of masonry materials, brick, block, concrete and stone. Strategically placed hole designs help ventilate dust from the surface to extend the life of the cups.				
SIZE (D x H)	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
Single Row for Fast Stock Removal				
4 x 7/8-5/8-20mm	.210"	15,000	CHSCPH0400	70184682585 6
5 x 7/8-5/8-20mm	.210"	12,225	CHSCPH0500	70184684035 4
7 x 7/8-5/8-20mm	.210"	8,730	CHSCPH0700	70184682594 8
4 x 5/8"-11	.210"	15,000	CHSCPT0400	70184682555 9
5 x 5/8"-11	.210"	12,225	CHSCPT0500	70184684036 1
7 x 5/8"-11	.210"	8,730	CHSCPT0700	70184682593 1
Double Row for Long Life, Smooth Finish				
4 x 7/8-5/8-20mm	.210"	15,000	CHDCPH0400	70184682588 7
5 x 7/8-5/8-20mm	.210"	12,225	CHDCPH0500	70184684037 8
7 x 7/8-5/8-20mm	.210"	8,730	CHDCPH0700	70184682596 2
4 x 5/8"-11	.210"	15,000	CHDCPT0400	70184682586 3
5 x 5/8"-11	.210"	12,225	CHDCPT0500	70184684038 5
7 x 5/8"-11	.210"	8,730	CHDCPT0700	70184682595 5

Accessories

VACUUM SHROUD KIT	
The Vacuum Shroud's design creates a cyclonic affect extracting dust and debris from the work surface into the support vacuum. This prolongs the life of the grinding cup and grinder and provides a smoother surface while decreasing the chance of dust particle inhalation.	
DESCRIPTION	UPC #
Kit includes: one shroud, five different adapter rings to fit most popular right angle grinders, and one 7" Norton Classic single row cup wheel	70184641039 7





Core bits are cutting tools used to remove a cylindrically shaped piece of material. A core drill is designed to cut a hole and remove a core sample or to drill a hole without leaving material behind. Diamond core bits have diamond cutting tips and are frequently used for drilling in materials such as concrete, stone, and asphalt.


Applications: Used on core drills in materials such as concrete, stone and other hard materials
 Size Range: 2" – 10"
 Segment Height Range: .254", .393"
 Abrasive Grain: Diamond
 Mounting Options: 1-1/4"-7 threads
 Machines Used:



Reinforced Concrete and Harder Building Materials

WET – Hard Aggregates 



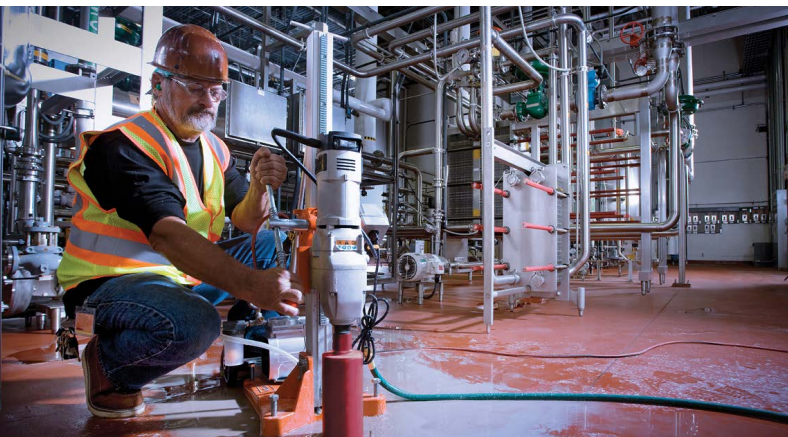
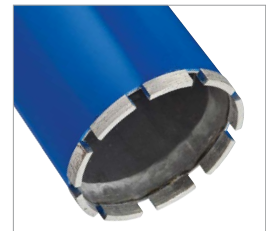
NORTON PARADIGM 
 Premium diamond of the turbo segment permits the core to penetrate quickly and efficiently into the toughest cured concrete, for significantly increased performance. The 14" tube length with 1-1/4"-7 threads fits a wide range of core drill mounting arbors.

SIZE IN INCHES	SIZE IN MM	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
2"	51mm	.393" (10mm)	2000	PDBIT0200	70184601410
2-1/2"	64mm	.393" (10mm)	1300	PDBIT0250	70184601411
3"	76mm	.393" (10mm)	1300	PDBIT0300	70184601412
3-1/2"	89mm	.393" (10mm)	1300	PDBIT0350	70184601413
4"	102mm	.393" (10mm)	1000	PDBIT0400	70184601414
4-1/2"	114mm	.393" (10mm)	800	PDBIT0450	70184601415
5"	127mm	.393" (10mm)	800	PDBIT0500	70184601416
6"	152mm	.393" (10mm)	665	PDBIT0600	70184601417
7"	178mm	.393" (10mm)	600	PDBIT0700	70184601418
8"	203mm	.393" (10mm)	500	PDBIT0800	70184601419
10"	254mm	.393" (10mm)	400	PDBIT1000	70184601706



NORTON CLASSIC 
 Economical choice for use in harder concrete with heavy reinforcement and masonry materials with good performance.

SIZE IN INCHES	SIZE IN MM	SEGMENT HEIGHT	MAX RPM	PART #	UPC #
2"	51mm	.254"	2,000	CHBIT0200	70184682762 1
3"	76mm	.254"	1,300	CHBIT0300	70184682765 2
4"	102mm	.254"	1,000	CHBIT0400	70184682767 6
6"	152mm	.254"	665	CHBIT0600	70184682771 3
8"	203mm	.254"	500	CHBIT0800	70184682773 7
10"	254mm	.254"	400	CHBIT1000	70184682774 4



TECH TIP

Core Bits – Minimum and Maximum Recommended Operating Speeds

BIT DIAMETER	MINIMUM RPM	IDEAL SPEED (RPM)	MAXIMUM RPM
1"	2,400	3,200	4,000
2"	1,200	1,600	2,000
3"	800	1,050	1,300
4"	600	800	1,000
5"	475	640	800
6"	400	530	665
7"	340	450	600
8"	300	400	500
10"	240	320	400

Note: For half inch increments, go to the next larger bit diameter.



It is the user's responsibility to refer to and comply with ANSI B7.1



High-Speed Gas Saws

No more pre-mixing oil and fuel – the patented iLube option automatically controls mixing for maximum efficiency, and the saw drops to idle speed when the oil is low – eliminating possible machine damage

Walk-Behind Saws

Proven, robust and functional for ideal user comfort. The professionals' choice for outstanding walk behind cutting performance, wet or dry.

Masonry Saws

Norton introduced the first masonry saw over 70 years ago and they have become the industry standard for masons worldwide.

For the full line of quality Norton equipment, please contact your local Norton sales representative

High-Speed Gas Saws

CP500 SERIES HIGH-SPEED SAWS

The Norton Clipper CP500 high-speed cut-off saw might be new to the market, but it's destined to be an asset on any crew. It's fully designed with the user in mind to not only cut a smooth, fast track, but it's also fully equipped to handle the everyday performance of any jobsite with unrelenting durability and reliability. Select a standard model or upgrade to the world's first patented automatic lubrication system, Norton iLube.

The patented iLube option automatically controls mixing of oil and fuel for maximum efficiency. An electronic sensor will indicate a low oil level and adjust the engine to idle to prevent engine damage.

DESCRIPTION	SHAFT RPM	PART #	UPC #
12" Standard High-Speed Cut-Off Saw	4500	CP512-300	70184647559 4
12" iLube High-Speed Cut-Off Saw	4500	CP512-300i iLube	70184647561 7
14" Standard High-Speed Cut-Off Saw	4500	CP514-350	70184647563 1
14" iLube High-Speed Cut-Off Saw	4500	CP514-350i iLube	70184647565 5

ACCESSORIES

High-Speed Saw Wheel Kit	00510109845 1
High-Speed Saw Tool Kit	00510109846 8



Walk-Behind Push Saws



GC55 EARLY ENTRY/GREEN SAW

With a compact, light-weight design backed by the reliable Honda 5HP gasoline engine, the GC55 early entry saw is intended for a variety of applications. From green, cured or decorative concrete cutting to expansion joints, the features of this small push saw are hard to beat in a single saw. The low, wide profile of the frame, along with the front mount blade, contribute to producing a more disciplined cut.

UPC #	MOTOR	WEIGHT	GUARD
70184630005 6	Honda GX160	115 lbs	10"



C1318P GASOLINE SAW

The next generation of 13HP saws. The C1318P features shock-absorbing handle bars. The new sleek design of the water tank, with increased capacity and improved securing, adds an additional 1.5 gallons of water over the cut. And, a newly-designed belt tensioning system helps keep the saw cutting true and true. All these features, coupled with the Honda 13HP engine, make the C1318P the premiere choice for rental and service work.

UPC #	MOTOR	WEIGHT	GUARD
70184642453 0	Honda GX390	220 lbs	18"



C13PE GASOLINE SAW

Rental equipment has to withstand any and all conditions by user and application. For that reason, the Norton Clipper C13PE or CP14PE suits any rental fleet that both the novice and expert will appreciate to hold-up through tough situations. The 18" blade guard, ride-on water system and quick-release blade guard lock all keep safety in mind while the rugged frame, powerful engine and easy-to-use console makes cutting a breeze.

UPC #	MOTOR	WEIGHT	GUARD
70184647524 2	Honda GX390	220 lbs	18"

Large Masonry Saws

BBL BLOCKBUSTER LARGE MASONRY SAWS

Having introduced the first masonry saw over 70 years ago, the Norton Clipper BBL heavy-duty block saws have become the industry standard for masons worldwide. These models are equipped with single-phase electric motor and come with a blade capacity of 14" or 20". Extended water pan and open back frame allow cutting of larger materials. The balanced cutting head makes for effortless cutting depth positioning. Having a rugged all-steel frame design with forklift brackets allows these saws to resist twisting and damage during transport around a job site.

For other sizes and horsepower machines, or for gasoline-powered versions, contact your Norton sales representative.

DESCRIPTION	HP	PART #	UPC #
BBL547 Blockbuster Saw with Baldor electric motor; 14" blade guard capacity	5	BBL547	70184683211
BBL527 Blockbuster Saw with Baldor electric motor; 20" blade guard capacity	5	BBL527	70184683150
ACCESSORIES			
Electric Water Pump – PE-1			70184668392
Conveyor Cart Replacement for BBL			00310007390



Electric Water Pump



Conveyor Cart Replacement



Compact Masonry Saws

BBC BLOCKBUSTER COMPACT MASONRY SAWS

Combines the performance of a full size masonry saw with the convenience of portability. Also available in gas or electric versions, the BBC saws have a rugged jig-welded frame, durable enough for even the heaviest work load. Standard rear wheel dolly design and removable legs make transport and set-up easy.

For other sizes and horsepower machines, or for gasoline-powered versions, contact your Norton sales representative..

DESCRIPTION	HP	PART #	UPC #
BBC157 Blockbuster Saw with Baldor electric motor; 14" blade guard capacity	1.5	BBC157	70184682488
BBC207 Blockbuster Saw with Baldor electric motor; 14" blade guard capacity	2	BBC207	70184682501
BBC207 Blockbuster Saw with Baldor electric motor; 20" blade guard capacity	3	BBC307	70184630011
BBC547 Blockbuster Saw with Honda gasoline motor; 14" blade guard capacity	5.5	BBC547	70184682175
BBC507 Blockbuster Saw with Honda gasoline motor; 20" blade guard capacity	5.5	BBC507	70184630012
ACCESSORIES			
Electric Water Pump – PE-1			70184668392
Conveyor Cart Replacement for BBC			00310007367



Mini Masonry Saws

BBM BLOCKBUSTER MINI MASONRY SAWS

The innovative design of these small masonry saws has been copied many times due to its compact, all-steel unibody construction, giving the best weight-to-strength distribution. A 14" blade capacity and ergonomically-designed, three-position locking, cutting head provides a safe, clear view of the work area. Whether your choice is the 3HP brush motor or the 1.5HP induction motor for heavier commercial use, both come with features such as overload protection, garden hose connection and a channeled-flow water pan to direct dust and slurry away from the operator.

DESCRIPTION	HP	PART #	UPC #
Blockbuster Mini Masonry Saw with AC universal motor; gear drive	3	BBM307	70184600684
Blockbuster Mini Masonry Saw with Induction motor; belt drive	2	BBM158	70184626327
ACCESSORIES			
Vacuum Adaptor Kit (includes: back splash, adaptor and hardware)			70184600753
Wet Kit			70184600704
Stand			70184600691



Wet Kit



Stand



All saws on this page come equipped with genuine Norton diamond blades.

we've got you covered
**FROM DIY TO TOOLCRIB
TO PRODUCTION FLOOR**

Our bench wheels keep your tools sharp and productive. Reach tight spots with our mounted points, and produce sharp edges with our sharpening stones.



Never a Dull Moment

Our bench and pedestal wheel line answers all your metal removal, deburring, shaping and sharpening needs, for high-speed tool steels to non-ferrous metals.



An All-Points Bulletin

Rely on A-shaped mounted points for medium-to heavy-duty blending; B shapes for light deburring and blending; W shapes for offhand and precision medium- to heavy-duty grinding.



Sharpen Your Reputation

Whether you are filing, honing, sharpening or edge finishing... Norton benchstones, files, slips, and specialty stones will get the job done, fast.

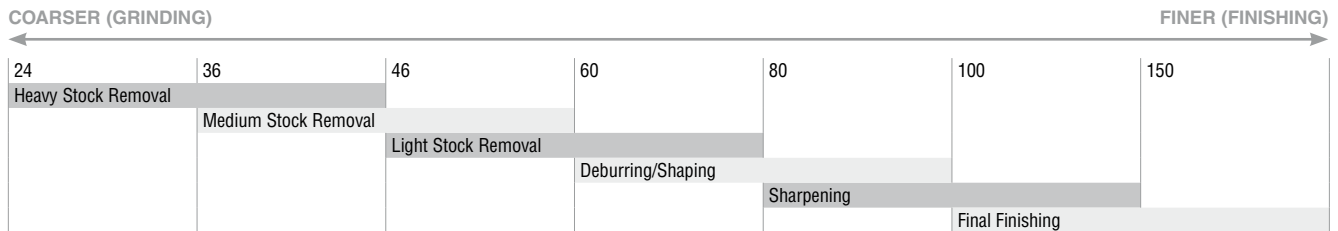


The Norton bench and pedestal wheel line consists of numerous wheel diameters and arbor sizes, abrasive types and grit sizes. Our offering answers all metal removal, deburring, shaping and sharpening needs: white aluminum oxide for high-speed tool steels, brown aluminum oxide for carbon steel, and silicon carbide for non-ferrous metals and carbide tooling.

Applications: Offhand deburring and sharpening of parts and tools
 Size Range: 5" – 18"
 Grit Range: 24 – 150
 Abrasive Types: Aluminum Oxide (Alundum), Silicon Carbide (Crystolon)
 Bushings: Telescopic arbor bushings to fit all popular grinders are packaged with the wheel
 Machine Used:



APPLICATION/GRIT RECOMMENDATION GUIDE



PREMIUM WHITE ALUMINUM OXIDE



BETTER CHOICE FOR LIGHT METAL REMOVAL AND SHARPENING OF HIGH-SPEED TOOL STEELS (55 RC AND HIGHER)

FEATURES

- White aluminum oxide in a premium vitrified bond

BENEFITS

- Maximum cut rate and cool grinding action on hardened or high-speed tool steels

NORTON 57A ALUMINUM OXIDE & 39C SILICON CARBIDE



BETTER CHOICE FOR END USER THAT NEEDS SPECIFIC GRIT SIZE AND HARDNESS FOR ENGINEERED APPLICATIONS

FEATURES

- High quality aluminum oxide or silicon carbide abrasive in a premium vitrified bond system

BENEFITS

- Precision engineered grit size and hardness to maximize cut rate, finish and wheel life
- 57A for ferrous metals: 39C for nonferrous materials

NORTON GEMINI ALUMINUM OXIDE



GOOD CHOICE FOR ALL GENERAL-PURPOSE BENCH AND PEDESTAL APPLICATIONS

FEATURES

- Quality, brown aluminum oxide

BENEFITS

- Economical prices; ideal for small job shops and numerous general-purpose applications

NORTON GEMINI SILICON CARBIDE



GOOD CHOICE FOR ALL GENERAL-PURPOSE BENCH AND PEDESTAL APPLICATIONS ON NONFERROUS MATERIALS AND CARBIDE TOOLING

FEATURES

- Sharp, green silicon carbide

BENEFITS

- Economical prices; ideal for small job shops and numerous general-purpose applications



TIER: BETTER
BRAND: Norton
TRADENAME: PREMIUM ALUNDUM
ABRASIVE: White Aluminum Oxide



BETTER
Norton
57A
Brown Aluminum Oxide



GOOD
Norton
GEMINI ALUNDUM
Brown Aluminum Oxide

SIZE (D x T x H)	MAX. RPM	MIN./STD. PKG.	SPEC	PART #	MIN./STD. PKG.	SPEC	PART #	MIN./STD. PKG.	SPEC	PART #
5 x 1/2 x 1	4,965							1/5	Medium 60/80	07660788202
	4,965							1/5	Fine 100/120	07660788201
5 x 3/4 x 1	4,965							1/5	Coarse 36/46	07660788215
	4,965							1/5	Medium 60/80	07660788210
5 x 1 x 1	4,965							1/5	Fine 100/120	07660788205
	4,965							1/5	Coarse 36/46	07660788230
6 x 1/2 x 1	4,140							1/5	Medium 60/80	07660788225
	4,140							1/5	Coarse 36/46	66252836132
6 x 3/4 x 1	4,140							1/5	Medium 60/80	66252836131
	4,140							1/5	Fine 100/120	66252836133
6 x 1 x 1	4,140	1/5	Medium 60	07660788246				1/5	Coarse 36/46	07660788245
	4,140	1/5	Fine 100	07660788247				1/5	Medium 60/80	07660788240
6 x 1 x 1	4,140	1/5	Very Fine 150	07660788248				1/5	Fine 100/120	07660788235
	4,140	1/5	Medium 60	07660788261				1/5	Coarse 36/46	07660788260
7 x 1 x 1	4,140	1/5	Fine 100	07660788262				1/5	Medium 60/80	07660788255
	3,600	1/5	Very Fine 150	07660788263				1/5	Fine 100/120	07660788250
7 x 1 x 1	3,600							1/5	Coarse 36/46	07660788275
	3,600							1/5	Medium 60/80	07660788270
8 x 3/4 x 1	3,600							1/5	Fine 100/120	07660788265
	3,600							1/5	Coarse 36/46	07660788278
8 x 1 x 1	3,600							1/5	Medium 60/80	07660788277
	3,600	1/5	Very Fine 150	07660788283				1/5	Fine 100/120	66253042317
8 x 1 x 1	3,600	1/5	Medium 60	07660788281				1/5	Very Coarse 24	66253044454
	3,600	1/5	Fine 100	07660788282				1/5	Coarse 36/46	07660788286
10 x 1 x 1-1/4	2,485							1/5	Medium 60/80	07660788285
	2,485							1/5	Fine 100/120	07660788280
10 x 1 x 1-1/4	2,485							1/2	Very Coarse 24	66253160788
	2,485							1/2	Coarse 36/46	07660788295
10 x 1-1/4 x 1-1/4	2,485							1/2	Medium 60/80	07660788290
	2,485							1/2	Fine 100/120	66253160350
10 x 1-1/2 x 1-1/4	2,485							1/2	Coarse 36/46	66253161250
	2,485							1/2	Medium 60/80	66253161251
12 x 1 x 1-1/4	2,070							1/2	Coarse 36/46	66253161393
	2,070							1/2	Medium 60/80	66253161395
12 x 1-1/2 x 1-1/2	2,070							1/5	57A46-MVBE	66253116280
	2,070							1/5	57A46-MVBE	66253220947
12 x 2 x 1-1/2	2,070							1/2	Very Coarse 24	66253263052
	2,070							1/2	Medium 60/80	66253263053
14 x 2 x 1-1/2	2,070							1/4	57A30-MVBE	66253220951
	2,070							1/4	57A36-OVBE	66253220952
14 x 2 x 1-1/2	2,070							1/2	Coarse 36/46	66253263055
	2,070							1/2	Medium 60/80	66253263056
14 x 2-1/2 x 1-1/2	1,800							1/3	57A46-MVBE	66253319972
	1,800							1/3	57A24-QVBE	66253319973
14 x 3 x 1-1/2	1,800							1/3	57A36-OVBE	66253319973
	1,800							1/3	57A46-MVBE	66253319974
18 x 3 x 1-1/2	1,275							1/2	57A24-QVBE	66253462610
	1,275							1/2	57A46-MVBE	66253319976
								1/2	57A46-MVBE	66253319975
								1/2	57A36-OVBE	66253319977
								1/2	57A24-QVBE	66253462610



TIER: BETTER
BRAND: Norton
TRADENAME: 39C (GREEN) / 37C (GRAY)
ABRASIVE: Silicon Carbide



GOOD
BRAND: Norton
TRADENAME: GEMINI CRYSTOLON
ABRASIVE: Green Silicon Carbide

SIZE (D x T x H)	MAX. RPM	MIN./STD. PKG.	SPEC	PART #	MIN./STD. PKG.	SPEC	PART #
6 x 1/2 x 1	4,140				1/5	Medium 60	66252836571
	4,140				1/5	Fine 80	66252836572
	4,140				1/5	Extra Fine 120	66252836573
6 x 3/4 x 1	4,140				1/5	Medium 60	66252837190
	4,140				1/5	Fine 80	66252837191
	4,140				1/5	Extra Fine 120	66252837192
6 x 1 x 1	4,140				1/5	Medium 60	66252837187
	4,140				1/5	Fine 80	66252837193
	4,140				1/5	Extra Fine 120	66252837194
7 x 1 x 1	3,600				1/5	Medium 60	66252942300
	3,600				1/5	Fine 80	66252942301
	3,600				1/5	Extra Fine 120	66252942302
8 x 1 x 1	3,600				1/5	Medium 60	66253044087
	3,600				1/5	Fine 80	66253044534
	3,600				1/5	Extra Fine 120	66253044535
10 x 1 x 1-1/4	2,485	1/5	39C60-IVK	66253116262	1/2	Medium 60	66253144536
	2,485				1/2	Fine 80	66253160366
10 x 1-1/2 x 1-1/4	2,485	1/5	39C60-IVK	66253116265			
12 x 2 x 1-1/4	2,070				1/2	Medium 60	66253263359
	2,070				1/2	Fine 80	66253263360
12 x 2 x 1-1/2	2,070	1/4	39C60-KVK	66253220942			
14 x 2 x 1-1/2	1,800	1/3	37C24-RVK	66253319967			
	1,800	1/3	39C60-JVK	66253319968			

Bench and Pedestal Wheel Arbor Bushings

WHEEL DIAMETER	WHEEL CENTER HOLE	1/2"	5/8"	3/4"	7/8"	1"	1-1/4"
5", 6", 7"	1"	•	•	•	•		
8"	1"		•	•	•		
10"	1-1/4"			•	•	•	
12" x 2"	1-1/4"					•	
12" and 14"	1-1/2"					•	•

These size bushings shipped free of charge with your wheel order.

TECH TIP

- Unsecured machines can move, causing grinding breakage and injury. Fixed-based bench and pedestal grinders **MUST** be secured.
- Do not grind wood, plastic, or any other non-metallic material on a bench or pedestal grinder.
- All bench and pedestal wheels must be dressed to prevent loading. Loading can cause excessive heat, damage to the workpiece, and wheel breakage. Dressing exposes new cutting edges and provides chip clearance.
- Recommended starting dressing stick: 1 x 1 x 6 37C24-SVK Part # 61463610462.



It is the user's responsibility to refer to and comply with ANSI B7.1



Resin bond, vitrified bond, center lap, and cotton fiber mounted points are available in a wide range of shapes.

Industries: Aerospace
Tool and Die
Construction
Metal Fabrication
Automotive
Cutlery
Mold Shops
Stainless Steel Equipment

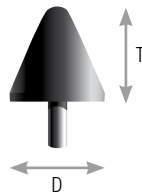
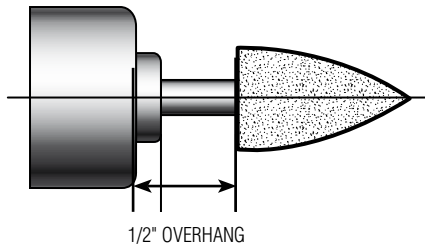
Abrasive Grain: Ceramic Alumina, Zirconia Alumina, Zirconia Alumina/Aluminum Oxide Blend, Aluminum Oxide

Shape Availability: A, B, and W

Machine Used:



MEASUREMENT GUIDE



Description of Overhang

Overhang is the distance between the grinder chuck and the abrasive on the spindle. The larger the overhang, the lower the maximum safe operating speed.

Size

Measured by diameter (D) x thickness (T)

FEATURED PRODUCTS



COTTON FIBER ALUMINUM OXIDE - RESIN BOND

GOOD FOR BLENDING AND POLISHING

FEATURES

- 80 grit
- 120 grit

BENEFITS

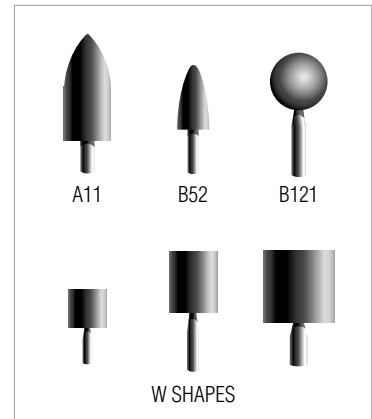
- For most materials
- For polishing and stainless steel applications

TIER: **GOOD**
BRAND: Norton
TRADENAME: **COTTON FIBER**
ABRASIVE: Aluminum Oxide

SHAPE	SIZE (D x T)	SPINDLE DIA. †	MAX. RPM*	MIN./STD. PKG.	SPEC	PART #
Cotton Fiber Mounted Points						
A11	7/8 x 2	1/4	19,860	5/25	A80-HBF3	61463622664
B52	3/8 x 3/4	1/8	45,370	5/25	A120-HBF3	61463620242
B121	1/2" Ball	1/8	45,370	5/25	A80-HBF3	61463622657
W163	1/4 x 1/2	1/8	60,000	5/25	A80-HBF3	61463622655
			60,000	5/25	A120-HBF3	61463622656
W176	3/8 x 1/2	1/8	45,370	5/25	A80-HBF3	61463622654
W185	1/2 x 1/2	1/8	34,500	5/25	A80-HBF3	61463622649
W187	1/2 x 1	1/8	20,620	5/25	A80-HBF3	61463622651
W220	1 x 1	1/4	25,500	5/25	A80-HBF3	61463622646

† Spindle length is 1-1/2"

* Maximum RPM valid to 1/2" overhang. See package insert for other overhangs.



CENTER LAP ALUMINUM OXIDE - VITRIFIED BOND

FOR EXCELL-O CENTER LAP AND SIMILAR MACHINES



FEATURES & BENEFITS

- Specially formulated wheel treatment (#5 wood resin) adds lubricity to the wheel, minimizing risk of metallurgical damage
- Larger diameter spindle for minimum deflection, rigid support
- Precise dimensional tolerances ensure accurate location of part centers

TIER:	BETTER
BRAND:	Norton
TRADENAME:	CENTER LAP
ABRASIVE:	Aluminum Oxide

TECH TIP

Dress the center lap mounted points frequently to ensure accurate and smooth center holes.



It is the user's responsibility to refer to and comply with ANSI B7.1

SHAPE	SIZE (D x T)	SPINDLE DIA. †	MAX. RPM*	MIN./STD. PKG.	SPEC	PART #
Center Lap Mounted Points						
–	1/2 x 2**	1/2	65,000	5/25	A80-VVM	61463621421
–	1 x 2**	1/2	15,900	5/25	A80-VVM	61463622926

† Spindle length is 1-1/4"

* Maximum RPM valid to 1/2" overhang. See package insert for other overhangs.

** Pointed 60°

NORTON NORZON ZIRCONIA ALUMINA – RESIN BOND

BEST CHOICE FOR FAST STOCK REMOVAL



FEATURES & BENEFITS

- NZ (NorZon) zirconia alumina self-sharpening abrasive and durable organic bond provide 2X faster stock removal than competitive aluminum oxide products, while lasting 4X longer

NORTON CHARGER Z/A & A/O BLEND – RESIN BOND

BETTER CHOICE FOR FAST STOCK REMOVAL AND LONG LIFE



FEATURES & BENEFITS

- Zirconia alumina/aluminum oxide abrasive blend provides 35% faster cut rate than standard aluminum oxide mounted points
- An aggressive, free cut cleans more parts in less time to substantially increase productivity
- Specially formulated organic bond for 2X greater life than ordinary aluminum oxide mounted points, with reduced vibration and wheel chatter
- Charger mounted point pre-packed in small packages are ideal for vending machines, pegboards, small jobs, and carrying to job site

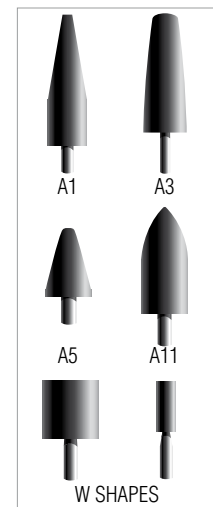
TIER:	BEST	BETTER
BRAND:	Norton	Norton
TRADENAME:	NORZON	CHARGER
ABRASIVE:	Zirconia Alumina	Zirconia Alumina/Aluminum Oxide

SHAPE	SIZE (D x T)	SPINDLE DIA. †	MAX. RPM*	MIN./STD. PKG.	SPEC	PART #	SPEC	PART #
Resin Bond Mounted Points								
A1	3/4 x 2-1/2	1/4	19,800	5/25	NZ24-UBXR1	61463616457	Charger	61463616458
A3	1 x 2-3/4	1/4	16,100	5/25	NZ24-UBXR1	61463616459	Charger	61463616460
			16,100	2 V			Charger	66253325924
A5	3/4 x 1-1/8	1/4	45,000	5/25			Charger	61463616462
			45,000	5 V			Charger	66253325926
A11	7/8 x 2	1/4	19,860	5/25	NZ24-UBXR1	61463616463	Charger	61463616464
W189	1/2 x 2	1/4	24,000	5/25	NZ24-UBXR1	61463616465	Charger	61463616466
			24,000	5 V			Charger	66253325928
W197	5/8 x 2	1/4	21,000	5/25	NZ24-UBXR1	61463616467		
W207	3/4 x 1-1/2	1/4	24,000	5/25			Charger	61463616470
W208	3/4 x 2	1/4	18,750	5/25	NZ24-UBXR1	61463616471	Charger	61463616472
W220	1 x 1	1/4	25,500	5/25	NZ24-UBXR1	61463617520	Charger	61463617521
			25,500	5 V			Charger	66253325930
W221	1 x 1-1/2	1/4	19,120	5/25	NZ24-UBXR1	61463616473	Charger	61463616474
W222	1 x 2	1/4	15,900	5/25	NZ24-UBXR1	61463616475	Charger	61463616476

† Spindle length is 1-1/2"

* Maximum RPM valid to 1/2" overhang. See package insert for other overhangs.

V = Vendible package. Ideal for vending machines and small jobs. Min. Pkg. Qty = number of mounted points per vendible pack. Order in multiples of min qty.



NORTON QUANTUM CERAMIC ALUMINA – VITRIFIED BOND

BEST CHOICE FOR HIGH VOLUME OPERATIONS



FEATURES

- Unique, engineered ceramic grain shape and chemistry with proven bond technology
- Oil and Gas 36 grit mounted points

BENEFITS

- Ideal for high-volume foundry operations – grinding Inconel and similar alloy turbine blade components
- Minimal loading and heat build-up
- 33% + longer life versus competitive ceramic products
- 30% + higher metal removal rates
- Versatile, optimized for all low-, medium- and high-force applications
- Exceptional productivity and life
- Specifically engineered to efficiently grind the carbide matrix material of oil field drill heads

NORTON GEMINI ALUMINUM OXIDE– VITRIFIED BOND

GOOD VALUE FOR GENERAL PURPOSE, SMALL JOB SHOP APPLICATIONS



FEATURES

- 38A abrasive
- Diverse shapes and sizes

BENEFITS

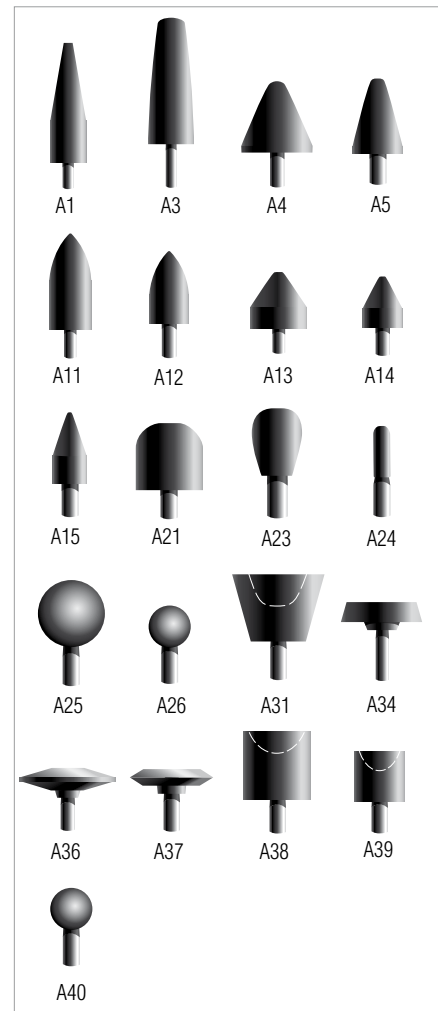
- Cool cutting, less burn
- Ideal when initial price is the main purchasing consideration

TIER:	BEST	GOOD
BRAND:	Norton	Norton
TRADENAME:	QUANTUM	GEMINI
ABRASIVE:	Ceramic Alumina	38A Aluminum Oxide

SHAPE	SIZE (D x T)	SPINDLE DIA. †	MAX. RPM*	MIN./STD. PKG.	SPEC	PART #	SPEC	PART #
Vitrified Bond Mounted Points – A Shapes								
A1	3/4 x 2-1/2	1/4	19,800	25/250	Oil & Gas 36	61463686139		
A1	3/4 x 2-1/2	1/4	19,800	5/25	3NQ80	69083149139	38A36-T	61463624374
A1	3/4 x 2-1/2	1/4	19,800	5/25			38A60-P	61463624375
A3	1 x 2-3/4	1/4	16,100	25/250	Oil & Gas 36	61463686138		
A3	1 x 2-3/4	1/4	16,100	5/25			38A36-T	61463624377
A3	1 x 2-3/4	1/4	16,100	5/25			38A60-P	61463624378
A4	1-1/4 x 1-1/4	1/4	30,560	5/25			38A60-P	61463624380
A5	3/4 x 1-1/8	1/4	45,000	5/25	3NQ80	69083149140	38A36-T	61463624381
A5	3/4 x 1-1/8	1/4	45,000	5/25			38A60-P	61463624382
A11	7/8 x 2	1/4	19,860	5/25	3NQ80	69083149141	38A36-T	61463624384
A11	7/8 x 2	1/4	19,860	5/25			38A60-P	61463624385
A12	11/16 x 1-1/4	1/4	48,000	5/25	3NQ60	61463677679	38A60-P	61463624388
A13	1-1/8 x 1-1/8	1/4	33,950	5/25			38A60-P	61463624389
A14	11/16 x 7/8	1/4	55,560	5/25			38A60-P	61463624390
A15	1/4 x 1-1/16	1/4	72,750	5/25			38A60-P	61463624391
A21	1 x 1	1/4	34,500	5/25	3NQ80	69083149144	38A60-P	61463624392
A23	3/4 x 1	1/4	39,370	5/25	3NQ80	69083149143	38A60-P	61463624394
A24	1/4 x 3/4	1/4	76,500	5/25			38A60-P	61463624395
A25	1" Ball	1/4	35,620	5/25	3NQ80	61463677680	38A60-P	61463624396
A26	5/8" Ball	1/4	61,120	5/25	3NQ80	69083149145	38A60-P	61463624397
A31	1-3/8 x 1	1/4	27,780	5/25			38A60-P	61463624399
A34	1-1/2 x 3/8	1/4	25,470	5/25			38A60-P	61463624402
A36	1-5/8 x 3/8	1/4	23,520	25/250	Oil & Gas 36	66253145562		
A36	1-5/8 x 3/8	1/4	23,520	5/25	3NQ80	69083149146	38A60-P	61463624404
A37	1-1/4 x 1/4	1/4	30,560	5/25			38A60-P	61463624405
A38	1 x 1	1/4	34,500	5/25	3NQ80	61463677682	38A60-P	61463624406
A39	3/4 x 3/4	1/4	47,250	5/25	3NQ80	69083149147	38A60-P	61463624407
A40	3/4" Ball	1/4	47,250	5/25			38A60-P	61463624408

† Standard spindle size is 1/4" x 1-1/2"

* Maximum RPM valid to 1/2" overhang. See package insert for other overhangs.

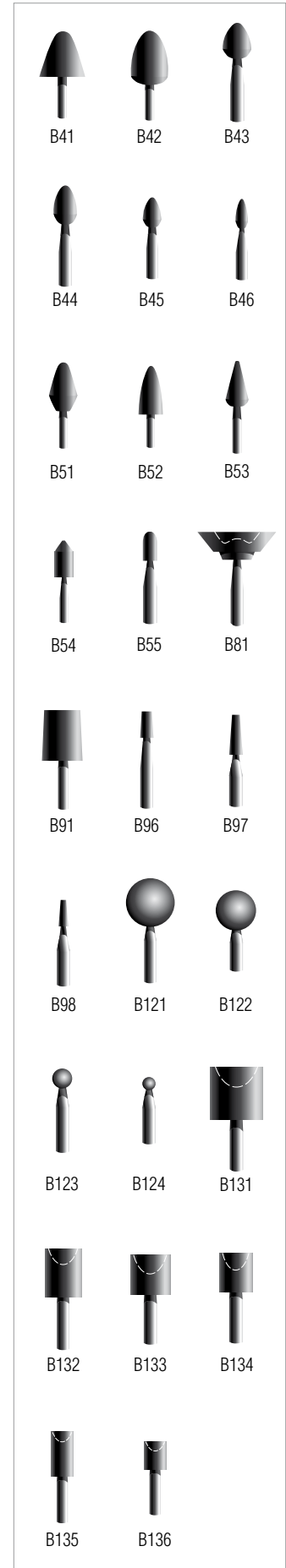


TIER:	BEST	GOOD
BRAND:	Norton	Norton
TRADENAME:	QUANTUM	GEMINI
ABRASIVE:	Ceramic Alumina	38A Aluminum Oxide

SHAPE	SIZE (D x T)	SPINDLE DIA. †	MAX. RPM*	MIN./STD. PKG.	SPEC	PART #	SPEC	PART #
Vitrified Bond Mounted Points – B Shapes								
B41	5/8 x 5/8	1/8	33,570	5/25			38A60-P	61463624410
B42	1/2 x 3/4	1/8	33,570	5/25	3NQ80	69083149045	38A60-P	61463624412
B43	1/4 x 5/16	1/8	81,370	5/25			38A60-P	61463624413
B44	7/32 x 3/8	1/8	68,400	5/25			38A60-P	61463624414
B45	3/16 x 5/16	1/8	104,250	5/25			38A60-P	61463624415
B46	1/8 x 5/16	1/8	105,000	5/25			38A60-P	61463624416
B51	7/16 x 3/4	1/8	45,370	5/25			38A60-P	61463624418
B52	3/8 x 3/4	1/8	45,370	5/25	3NQ80	69083149046	38A60-P	61463624420
B52	3/8 x 3/4	1/4	81,000	5/25			38A60-P	61463624419
B52	3/8 x 3/4	1/8	45,370	5/25			38A90-Q	61463624422
B53	5/16 x 5/8	1/8	60,000	5/25			38A60-P	61463624423
B54	1/4 x 1/2	1/8	60,000	5/25			38A60-P	61463624424
B55	1/8 x 1/4	1/8	105,000	5/25			38A60-P	61463624425
B81	3/4 x 3/16	1/8	50,930	5/25			38A60-P	61463624437
B91	1/2 x 5/8	1/8	34,500	5/25			38A60-P	61463624443
B96	1/8 x 1/4	1/8	105,000	5/25			38A60-P	61463624448
B96	1/8 x 1/4	1/8	105,000	5/25			38A90-Q	61463624449
B97	1/8 x 3/8	1/8	105,000	5/25	3NQ80	69083149048	38A60-P	61463624451
B98	3/32 x 1/4	1/8	105,000	5/25			38A60-P	61463624452
B121	1/2" Ball	1/8	45,370	5/25			38A60-P	61463624466
B122	3/8" Ball	1/8	61,650	5/25	3NQ80	69083149050	38A60-P	61463624470
B122	3/8" Ball	1/8	61,650	5/25			38A90-Q	61463624471
B123	3/16" Ball	1/8	104,250	5/25			38A60-P	61463624472
B124	1/8" Ball	1/8	105,000	5/25			38A90-Q	61463624474
B131	1/2 x 1/2	1/8	34,500	5/25	3NQ80	69083149049	38A60-P	61463624475
B132	3/8 x 1/2	1/8	45,370	5/25			38A60-P	61463624479
B133	3/8 x 3/8	1/8	54,000	5/25			38A60-P	61463624481
B134	5/16 x 3/8	1/8	61,650	5/25			38A60-P	61463624482
B135	1/4 x 1/2	1/8	60,000	5/25			38A60-P	61463624484
B136	1/4 x 5/16	1/8	77,250	5/25			38A60-P	61463624485

† Spindle size is 1/8" or 1/4" x 1-1/2"

* Maximum RPM valid to 1/2" overhang. See package insert for other overhangs.



TECH TIP

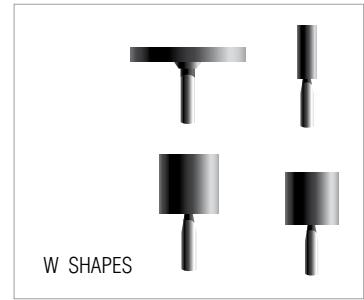
- For best mounted point performance, always run the mounted point at the maximum allowable speed according to ANSI B7.1. Refer to the speed chart included in each shipment for proper operating speeds.
- Use "A" shapes for medium- to heavy-duty blending.
- Use "B" shapes for light deburring and finishing/polishing.
- Use "W" shapes for offhand and precision grinding of medium to heavy stock.
- Use 36 grit and coarser for rough grinding.
- Use 60 and 90 grits for imparting fine finishes or when grinding on narrow surfaces.



It is the user's responsibility to refer to and comply with ANSI B7.1



TIER:	BEST	GOOD
BRAND:	Norton	Norton
TRADENAME:	QUANTUM	GEMINI
ABRASIVE:	Ceramic Alumina	38A Aluminum Oxide



SHAPE	SIZE (D x T)	SPINDLE DIA. †	MAX. RPM*	MIN./STD. PKG.	SPEC	PART #	SPEC	PART #
Vitrified Bond Mounted Points – W Shapes								
W144	1/8 x 1/4	1/8	105,000	5/25			38A60-P	61463624488
W145	1/8 x 3/8	1/8	105,000	5/25			38A60-P	61463624489
W146	1/8 x 1/2	1/8	105,000	5/25			38A60-P	61463624491
W152	3/16 x 1/4	1/8	105,000	5/25			38A60-P	61463624495
W153	3/16 x 3/8	1/8	80,850	5/25			38A60-P	61463624496
W154	3/16 x 1/2	1/8	70,500	5/25	3NQ80	69083149133	38A60-P	61463624497
W160	1/4 x 1/4	1/8	81,370	5/25			38A60-P	61463624501
W162	1/4 x 3/8	1/8	64,800	5/25			38A60-P	61463624503
W163	1/4 x 1/2	1/8	60,000	5/25			38A60-P	61463624504
W164	1/4 x 3/4	1/8	45,900	5/25	3NQ80	69083149135	38A60-P	61463624505
W170	5/16 x 1/2	1/8	52,500	5/25			38A60-P	61463624511
W175	3/8 x 3/8	1/8	54,000	5/25			38A60-P	61463624516
W176	3/8 x 1/2	1/8	45,370	5/25			38A60-P	61463624517
W177	3/8 x 3/4	1/8	33,750	5/25			38A60-P	61463624518
W179	3/8 x 1-1/4	1/4	20,415	25/250	Oil & Gas 36	69083154055		
W185	1/2 x 1/2	1/8	34,500	5/25	3NQ80	69083149137	38A60-P	61463624525
W185	1/2 x 1/2	1/4	61,500	5/25			38A60-P	61463624526
W186	1/2 X 3/4	1/4	51,000	5/25			38A60-P	61463624528
W188	1/2 x 1-1/2	1/4	30,370	5/25			38A60-P	61463624530
W189	1/2 x 2	1/4	24,000	25/250	Oil & Gas 36	61463686137		
W189	1/2 x 2	1/4	24,000	5/25	3NQ80	61463677683	38A60-P	61463624531
W196	5/8 x 1	1/4	35,250	5/25			38A60-P	61463624539
W200	3/4 x 1/8	1/8	50,930	5/25			38A60-P	61463624543
W200	3/4 x 1/8	1/8	50,930	5/25			38A90-Q	61463624544
W204	3/4 x 3/4	1/4	42,750	5/25			38A60-P	61463624549
W205	3/4 x 1	1/4	34,500	5/25			38A60-P	61463624550
W208	3/4 x 2	1/4	18,750	5/25	3NQ80	61463677684	38A60-P	61463624553
W215	1 x 1/8	1/8	38,200	5/25	3NQ80	69083149138	38A60-P	61463624560
W216	1 x 1/4	1/4	38,200	5/25			38A60-P	61463624562
W218	1 x 1/2	1/4	38,200	25/250	Oil & Gas 36	69083154061		
W218	1 x 1/2	1/4	38,200	5/25			38A60-P	61463624564
W220	1 x 1	1/4	25,500	5/25	3NQ80	61463677685	38A60-P	61463624566
W221	1 x 1-1/2	1/4	19,120	5/25			38A60-P	61463624567
W222	1 x 2	1/4	15,900	5/25			38A60-P	61463624569
W230	1-1/4 x 1-1/4	1/4	20,400	5/25			38A60-P	61463624578
W235	1-1/2 x 1/4	1/4	25,470	5/25			38A60-P	61463624583
W236	1-1/2 x 1/2	1/4	25,470	5/25	3NQ80	61463677686	38A60-P	61463624585
W237	1-1/2 x 1	1/4	22,500	5/25			38A60-P	61463624587
W238	1-1/2 x 1-1/2	1/4	15,600	5/25			38A60-P	61463624588
W242	2 x 1	1/4	19,100	5/25	3NQ80	69083149148	38A60-P	61463624592

† Spindle size is 1/8" or 1/4" x 1-1/2"

* Maximum RPM valid to 1/2" overhang. See package insert for other overhangs.



50-Piece Mounted Point Kits

- Each kit contains 5 each of 10 of our best selling mounted point shapes and specifications
- The 1/4" spindle kits contain "A"-shaped points that are ideal for general maintenance and metalworking applications
- The 1/8" spindle kits contain "B"-shaped points for light deburring machine parts or finishing/polishing dies
- The "W"-shaped points in all of these kits work well for precision grinding of medium to heavy stock

TIER:	BEST	GOOD
BRAND:	Norton	Norton
TRADE NAME:	QUANTUM	GEMINI

SHAPE	SPINDLE DIA. †	MIN./STD. PKG.	PART #	PART #
Mounted Point Kits				
Assorted	1/4	1	50 piece Premium Norton Quantum 1/4" Spindle Mounted Point Kit contains 5 each of Norton Quantum A1, A5, A11, A21, A23, A26, A36, A39, W242, and A80-HBF3 W220	69083147810
Assorted	1/8	1	50 piece Premium Norton Quantum 1/8" Spindle Mounted Point Kit contains 5 each of Norton Quantum B42, B52, B97, B122, B131, W154, W164, W185, W215, and A80-HBF3 W163	69083147806
Assorted	1/4	1	50 piece Norton Gemini 1/4" Spindle Mounted Point Kit contains 5 each of 38A60-P A1, A5, A11, A21, A23, A26, A36, A39, W242, and A80-HBF3 W220	69083147789
Assorted	1/8	1	50 piece Norton Gemini 1/8" Spindle Mounted Point Kit contains 5 each of 38A60-P B42, B52, B97, B122, B131, W154, W164, W185, W215, and A80-HBF3 W163	69083147669

† Spindle size is 1/8" or 1/4" x 1-1/2"



Since 1823, Norton sharpening stones have lead the marketplace for industrial, commercial, and DIY sharpening applications. Our comprehensive line of sharpening and finishing products is the industry's broadest line with premier performance and quality.

For additional sharpening product requirements not shown in this catalog, contact your Norton sales representative.

Applications: Deburring, dimensioning, sharpening, honing
 Grit Range: Coarse, Medium, Fine, Extra Fine, Ultra Fine
 Abrasive Types: Aluminum Oxide (India), Silicon Carbide (Crystolon), and Arkansas (Soft and Hard Translucent)

Machine Used:

Benchstones



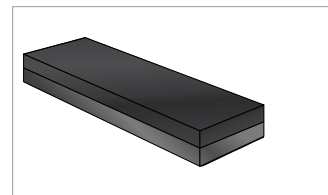
COMBINATION GRIT ABRASIVE BENCHSTONES

BETTER CHOICE FOR ECONOMICAL SOLUTION FOR GENERAL SHARPENING AND FINISHING WITH ONE STONE

FEATURES AND APPLICATIONS

- **Crystolon Combination**
Coarse and fine grit sharp-cutting silicon carbide abrasive surfaces for general sharpening (to moderate tolerances) when the speed of sharpening is more important than the fineness of the cutting edges. Gray in color.
- **India Combination**
Coarse and fine grit aluminum oxide abrasive surfaces produce strong, keen, long-lasting edges on quality tools. Orange/brown in color.
- **Crystolon/India Combination**
Fast-sharpening, medium grit silicon carbide (Crystolon) and fine aluminum oxide (India) abrasive surfaces for keen, long-lasting edges on quality tools. Crystolon side is dark gray in color, India side is orange.
- **Giant Combination Stones**
11-1/2" and 12" bench oil stones are used to sharpen large edge tools with long sweeping strokes.

SIZE (L x W x H)	QTY./CASE	SPEC.	TIER: BETTER	
			PRODUCT #	PART #
Combination Grit Benchstones – Crystolon (Silicon Carbide)				
4 x 1 Round	5	Coarse/Fine	JB64	61463685435
4 x 1-3/4 x 5/8	5	Coarse/Fine	JB134	61463685440
5 x 2 x 3/4	5	Coarse/Fine	JB45	61463685445
6 x 2 x 1	5	Coarse/Fine with Anniversary Box	JB6	61463685450
8 x 2 x 1	5	Coarse/Fine with Anniversary Box	JB8	61463685455
11-1/2 x 2-1/2 x 1	2	Coarse/Fine	JUM3	61463685840
12 x 2-1/2 x 1-1/2	2	Coarse/Fine	JUM4	61463685855
Combination Grit Benchstones – India (Aluminum Oxide)				
4 x 1 Round	5	Coarse/Fine	IB64	61463685545
4 x 1-3/4 x 5/8	5	Coarse/Fine	IB134	61463685550
5 x 2 x 3/4	5	Coarse/Fine	IB45	61463685555
6 x 2 x 1	5	Coarse/Fine with Anniversary Box	IB6	61463685560
8 x 2 x 1	5	Coarse/Fine with Anniversary Box	IB8	61463685565
11-1/2 x 2-1/2 x 1	2	Coarse/Fine	IM2	61463685851
Combination Grit Benchstones – Crystolon/India				
6 x 2 x 1	5	Medium/Fine	IC6	61463685643
11-1/2 x 2 x 1	2	Medium/Fine	IC11	61463687239
Oil Stone Instructional DVD				
N/A	1	Oil Stone DVD		07660787945



These benchstones are packed in individual boxes within a case. Order in multiples of stones/case.

Instructional DVD Offering

Ideal for sales training and end-user self-study. Learn to efficiently use these sharpening products to maintain tools at peak performance and prolong their life – to make all your sharpening, honing, etc. applications easier.

Waterstone: 07660787944
 Oil Stone: 07660787945



APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

	FAST CUT STOCK REMOVAL	INITIAL SHARPENING	FINAL SHARPENING	HONING	SHARPEST EDGE
Grit Size	Coarse	Medium	Fine	Extra Fine	Ultra Fine
Abrasive	Crystolon	Crystolon	India	Soft Arkansas	Hard Arkansas
Product/Color	Grey	Grey	Orange	Milky White	Translucent

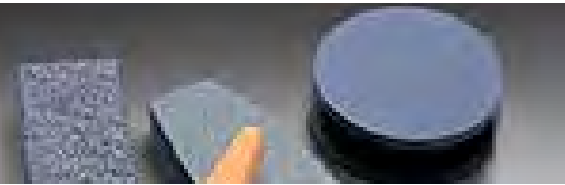
Specialty Stones

SPECIALTY STONES

BETTER CHOICE FOR SPECIFIC SHARPENING OR DEBURRING APPLICATIONS

FEATURES AND BENEFITS

- Norton continues to offer specialty stones with optimum specifications and unique shapes that conform to, and quickly sharpen, specific tools



Large Specialty Stones

Tradesmen's Utility Stones

Used for sharpening trimming knives and as an abrasive file in many different industries. The JT910 does not have a handle, while the JT920 and JT930 have wooden handles.

Sickle and Scythe Stones

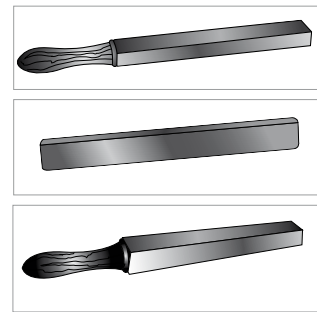
These silicon carbide stones quickly produce a fast-cutting edge on sickles, scythes, and brush hooks. These stones are most frequently chosen where the speed of sharpening is the primary consideration.

Utility File

A long wedge-shaped stone with four flat sides designed for sharpening coarse cutting edges on cutting implements and edged garden tools. Wooden handles make them easy to use. They will outlast and out-sharpen metal files.

SIZE	QTY./CASE	SPEC.	PRODUCT #	PART #
<i>TIER: BETTER</i>				
Tradesmen's Utility Stones – Crystolon (Silicon Carbide)				
10 x 1-1/4 x 3/4	10	Medium	JT910	61463687665
14-3/4 Overall (with Handle)	10	Coarse/Fine	JT930	61463687675
	10	Medium	JT920	61463687670
Sycle and Scythe Stones				
10 x 1-1/4 x 3/4 Crystolon (Silicon Carbide)	10	Coarse	TJ3	61463687731
10 x 1-5/16 x 3/4 India (Aluminum Oxide)	10	Coarse	TD1	61463687715
Utility File – Crystolon (Silicon Carbide)				
14 Overall (w/ Handle)	10	Coarse	JD2	61463687750

All Large Specialty Stones are bulk packed.



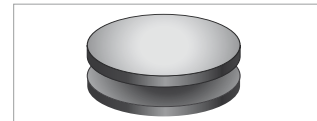
Machine Knife Stones

Machine Knife Stone

Crystolon (silicon carbide) machine knife stones offer both coarse and fine sides for sharpening and honing paper and cloth-cutting knives and planer knives on the machine. The groove around the middle of the stone protects fingers and provides a secure hold.

SIZE	QTY./CASE	SPEC.	PRODUCT #	PART #
<i>TIER: BETTER</i>				
Machine Knife Stone – Crystolon (Silicon Carbide)				
4" Diam. x 1-1/2" Thick	5	Coarse/Fine	JB74	61463687570

Machine Knife stones are packed in individual boxes within a case.



Sharpening Stone Oil

SHARPENING STONE OIL

BETTER CHOICE FOR IMPROVING SHARPENING STONE PERFORMANCE

FEATURES

- Norton oil is a highly refined lubricating oil
- Meets U.S. Pharmacopoeia standards for mineral oil purity

BENEFITS

- Specifically formulated for sharpening stone use
- Equally ideal for all lubricating jobs
- It will not load or "gum-up" sharpening stones
- May be used around food preparation operations



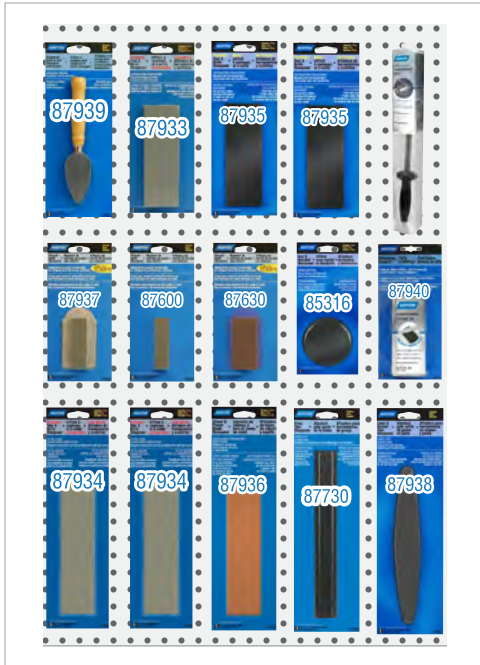
SIZE	QTY./CASE	SPEC.	PRODUCT #	PART #
<i>TIER: BETTER</i>				
Sharpening Stone Oil				
4-1/2 oz.	20	Oil	XB1	61463687760
1 Pint	20	Oil	XB5	61463687770
1 Quart	5	Oil	XB2	61463687775

TECH TIP

- All oil stones are porous in nature; oil is required to keep the pores open and working efficiently
- Use Norton oil to optimize the performance of Crystolon, India and Arkansas stones
- While sharpening knives, blades and tools, be careful to keep fingers away from sharp edges

Retail Packaged Sharpening Products

Our retail-packaged line brings Norton quality to your distributor showroom, vending machine, tool crib, and your tool box. Each stone is specifically designed for a popular sharpening application and packaged to sell or carry to the job site.



SIZE (L x W x H)	SPEC.	TIER: BETTER	
		QTY./CASE	PART #
Axe and Hatchet Sharpener			
3 x 5/8 round	Coarse/Fine Crystolon (Silicon Carbide)	10	07660785316
Pocket Knife Sharpener			
3 x 7/8 x 3/8	Fine Crystolon (Silicon Carbide)	5	07660787600
3 x 7/8 x 3/8 with case	Medium India (Aluminum Oxide)	5	07660787937
3 x 1-1/2 x 1/2 with case	Coarse/Fine India (Aluminum Oxide)	5	07660787630
Economy Tool & Knife Benchstone			
6 x 2 x 3/4	Coarse/Fine Crystolon (Silicon Carbide)	5	07660787933
8 x 2 x 3/4	Coarse/Fine India (Aluminum Oxide)	10	07660787934
8 x 2 x 1	Coarse/Fine India (Aluminum Oxide)	10	61463685755
High Quality Tool & Knife Benchstone			
6 x 2 x 3/4	Coarse/Fine Crystolon (Silicon Carbide)	5	07660787935
Chisel & Planer Blade Sharpener			
8 x 2 x 3/4	Coarse/Fine India (Aluminum Oxide)	10	07660787936
Household Knife & Tool Sharpener			
7-1/2	Fine Crystolon (Silicon Carbide)	5	07660787939
Farm Tool Sharpener			
10 x 1-1/4 x 3/4	Coarse Crystolon (Silicon Carbide)	10	07660787730
Lawn & Garden Tool Sharpener			
9-1/2 x 1-3/8 x 1/2	Medium Crystolon (Silicon Carbide)	10	07660787938
Sharpening Stone Oil			
4-1/2 oz.	Oil	5	07660787940
Sharpening Steel			
1/2 x 10	Round file with rubber handle	8	66253240433
Vitrified Dressing Stick			
1 x 1 x 6	Medium Silicon Carbide	5	07660710466

Knife and Scissor Sharpener

The knife and scissor mechanical sharpener is a quick and portable tool for hundreds of sharpening applications.



SPECIFICATION	QTY./CASE	PART #
Knife and Scissor Sharpener		
Carbide	6	07660787520

Norton Professional Sharpening Products and Dressing Sticks

See the "Norton Professional Sharpening Products and Dressing Sticks Catalog #200" on www.nortonabrasives.com to view the complete list and descriptions of our many sharpening products.



Hard silicon carbide rubbing bricks are used for heavy-duty applications such as rubbing floors, cleaning and scouring castings, rubbing down concrete, and removing mold marks.

Applications:

Floor Rubbing Bricks – are used to rub down concrete and remove mold marks. These are designed to fit the chucks of common concrete floor grinding equipment. Reusable wooden wedges anchor the bricks to the equipment chucks.

Plain Hand Rubbing Bricks – are the choice of mechanics and foundry workers for dressing grinding wheels and cleaning or scouring castings.

Fluted Hand Rubbing Bricks – are used by masons and stone workers for rubbing down concrete and removing mold marks. The diagonal flutes provide sharp edges, a clean shearing action, and carry away debris.

Fluted Hand Rubbing Bricks with Handle – make quick work of removing mold marks and rubbing down concrete. The firmly attached handle reduces fatigue and facilitates overhead, wall, and floor work.

Griddle Bricks – quickly clean away carbon build-up and other residue on your grill without leaving fibers, which grill brushes often do.

Grit Range:
Abrasive Type:
Machine Used:

6 – 120
Silicon Carbide



SIZE (L x W x H)	QTY./ CASE	SPEC.	ABRASIVE	PART #
Plain Floor Rubbing Bricks with Wooden Wedges				
4 x 2 x 2	6	C6-R	Silicon Carbide	61463653292
	6	C10-R	Silicon Carbide	61463653293
	6	C24-R	Silicon Carbide	61463653294
	6	C80-R	Silicon Carbide	61463653295



SIZE (L x W x H)	QTY./ CASE	SPEC.	ABRASIVE	PART #
Floor Rubbing Brick with Center Score				
8 x 2 x 2	6	C120-R*	Silicon Carbide	61463685296*

*8" brick has a center score to facilitate dividing the brick in half – an economical alternative to buying two 4" bricks.



SIZE (L x W x H)	QTY./ CASE	PART #
Wooden Wedges		
	6	61463685297



SIZE (L x W x H)	QTY./ CASE	SPEC.	ABRASIVE	PRODUCT #	PART #
Plain Hand Rubbing Bricks					
8 x 2 x 2	5	C24	Silicon Carbide	BP28	61463687830



SIZE (L x W x H)	QTY./ CASE	SPEC.	ABRASIVE	PRODUCT #	PART #
Fluted Hand Rubbing Bricks					
6 x 2 x 2	5	C20	Silicon Carbide	BF26	61463687840
8 x 2 x 2	5	C20	Silicon Carbide	BF28	61463687845



SIZE (L x W x H)	QTY./ CASE	SPEC.	ABRASIVE	PRODUCT #	PART #
Fluted Hand Rubbing Bricks with Handle					
6 x 3 x 1	5	C20	Silicon Carbide	BFH6	61463687800
8 x 3-1/2 x 1-1/2	5	C20	Silicon Carbide	235	61463687795

All Bricks and Wedges are bulk packed.



SIZE (L x W x H)	QTY./ CASE	SPEC.	ABRASIVE	PART #
Griddle Brick				
4-1/2 x 3 x 2	5	Medium	Alundum	61463687870

How to Read an Abrasive Product Specification

Conventional Grinding Wheels

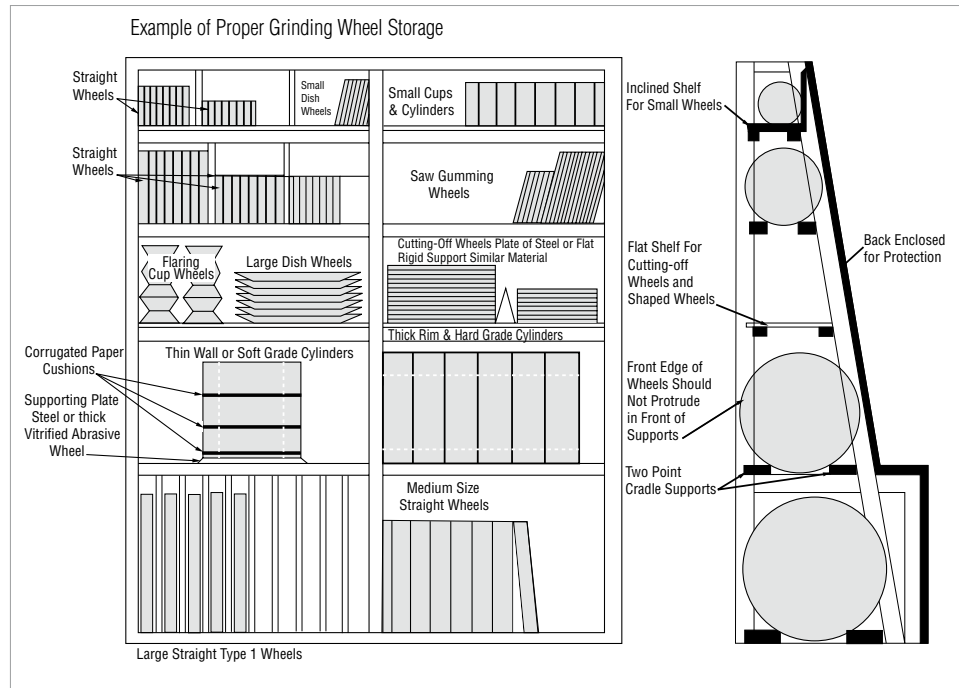
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Abrasive			Grit Size			Grade			Structure	Bond Type	Norton Symbol
Aluminum Oxide	Ceramic	Silicon Carbide	Coarse	Medium	Fine	Soft	Medium	Hard	Relative grain spacing	Resin = B	Designates a variation or modification to bond.
23A	Aluminum Oxide	4N	12	30	80	D	I	Q	Dense	Shellac = E	
25A	3SGP	37C	14	36	90	E	J	R	↑ 2 4 5 6 8 12 16 19 25 28 ↓ Open	Plastic = P	
32A	3SGR	39C	16	46	100	F	K	S		Rubber = R	
32AC (blend)	5SG	42F	20	54	120	G	L	T		Vitrified = V	
38A	BRG	4Z	24	60	150	H	M	u			
48A	SG	4ZF		70	220		N	V			
53A	SXG	AZ (blend)					O	Y			
55A	NorZon Plus (blend)	BlueFire					P	Z			
57A	NQ	Charger (blend)									
U57A	Quantum	NZ									
64A	Targa	NZC (blend)									
86A		NZIII									
90A		NZIV									
Alundum		NorZon									
FabCut		ZI									
India											
Gemini											
Metal											
Vortex											

Shelf Life and Proper Storage of Grinding Wheels

It has always been Saint-Gobain Abrasives recommendation that resinoid bonded grinding wheels be used within 2 years from the date of manufacture. This recommendation assumes that resinoid bonded grinding wheels have been stored under ideal storage conditions. It might be true that under ideal storage conditions resinoid bonded grinding wheels can survive without any degradation in strength for well over two years. However, it is always wise to suspect any wheels over two years old and have them reinspected or re-speed tested to determine if there has been any degradation in strength. If the wheels are stored under less than ideal conditions, they might have a much shorter shelf life depending upon the severity of storage conditions. These same comments also apply to rubber and shellac bonded grinding wheels.

As for vitrified grinding wheels, the shelf life is less influenced by humidity and adverse storage conditions as compared to resinoid, rubber or shellac, but even vitrified grinding wheels do not have an infinite shelf life. The best procedure and the best rule of thumb is to have any wheel that is two years old or older re-speed tested and reinspected to ensure it is fit for use. The procedure for having this done and the charges will be explained by our Customer Service Department, but the cost of shipping as well as the cost of re-inspection is the customer's responsibility. Also, any wheels rejected or otherwise lost in the re-inspection process will also be the responsibility of the customer.



Keep in mind, however, that this procedure is good to verify the reliability of a product but must not be performed until you are ready to consume the wheel. If wheels are sent back after the two year time frame for re-inspection and re-testing and then put back on the shelf, there is no telling how long they will be fit for use after that last inspection. Therefore, these wheels must be consumed as soon as is practical.

the brightest
product solutions from
**A TOTAL SPECTRUM
OF INNOVATION**

For everything from heavy-to-medium stock removal, to fine finishing, to light blending and polishing, coated abrasive products are available in many shapes, abrasive grains, specialty coatings and backing configurations to meet many application needs.



Blaze Your Way to Greater Productivity

The latest-generation, cooler cutting ceramic abrasive grain of Norton Blaze delivers highest productivity on stainless steel, titanium, and super alloys.



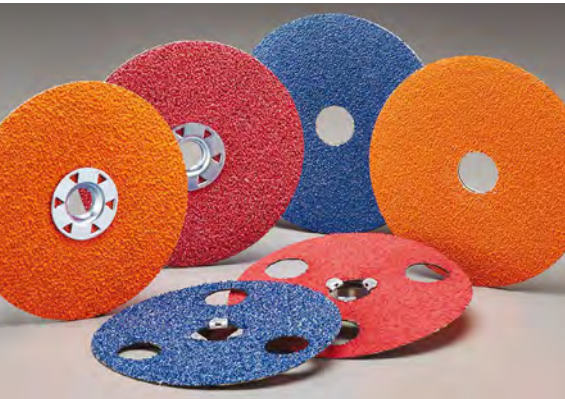
Unleash the Controlled Heat

Achieve the highest productivity on mild carbon steel, stainless, and ferrous metals under the toughest conditions from stock removal to quality finish



True Blue - Reinvented

Delivering success on a wide range of materials; the better choice for stainless, alloys, steel to cast iron and high-pressure applications.



The strongest of coated abrasive discs with resin over resin construction on heavy-duty fiber backing. Designed for applications ranging from heavy stock removal to surface blending. Used with back-up pads on portable angle grinders.

Applications: Stock removal, edge chamfering, weld blending, deburring/deflashing, rust removal, cleaning and finishing
Size Range: 4" x 5/8" hole, 4-1/2" – 9-1/8" x 7/8" and 5/8"-11 hole
Grit Range: 16 – 120
Abrasive Grain: Ceramic Alumina, Zirconia Alumina Blend, and Aluminum Oxide
Product Options: Conventional, Speed-Change hubs (5/8-11"), and AVOS technology
Accessories: Air-cooled, smooth-faced, and AVOS back-up pads
Machines Used:

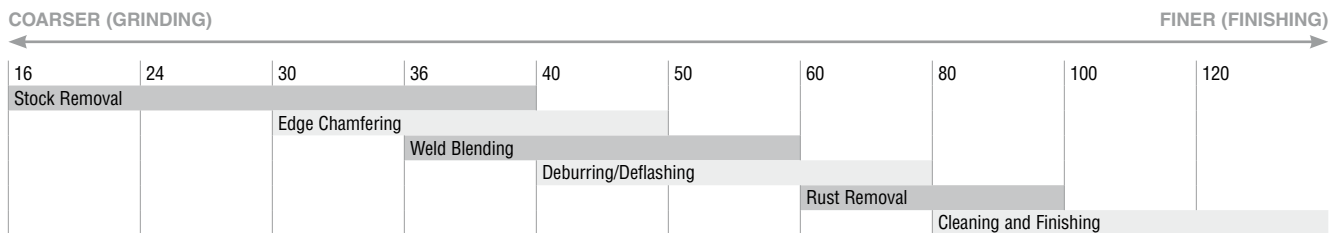


MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

	BEST Highest Productivity; Lowest Total Cost	BETTER Excellent Blend of Performance & Price	GOOD Consistent Performance; Low Initial Price
Stainless Steel / Titanium / Super Alloys*	Norton Blaze F980	Norton BlueFire F826P	Norton Metal F240
Mild Carbon Steel / Welds	Norton Red Heat F981	Norton BlueFire F826P	Norton Metal F240
Ferrous Metals / Cast Iron	Norton Red Heat F981	Norton BlueFire F826P	Norton Metal F240
Brass / Bronze / Aluminum	–	–	Norton Metal F240

*Nickel/Cobalt Based – Hastelloy, Inconel, Waspalloy

APPLICATION/GRIT RECOMMENDATION GUIDE



CROSS REFERENCE GUIDE

	TOTAL PERFORMANCE		INITIAL PRICE	
	BEST		BETTER	GOOD
NORTON	Blaze F980	Red Heat F981	BlueFire F826P	Metal F240
3M	985C, 982C	988C, 983C	501C	281C GreenCorp
Camel	–	–	Zirconia	A/O
Flexovit	–	–	Flexon	High Perf
GemTex	–	–	ZEE	A
Hermes	CB844X	CB444X/J	RB414X/J	–
Klingspor	CS661	–	CS570, CS565	CS561
Metabo	–	–	Z/A	A
Mirka	–	–	Blue A/Z, Gold A/Z	Red A/O
Pearl	–	–	Zirconia	A/O Silver
Pferd	CO Cool	CO	Z Cool, Z	A
Sait	9S	8S	3Z, Z	A, 2At
SIA	–	4515	4815, 4819	4919
Standard	–	–	Zirconia	A/O
VSM	XF870	XF750	ZF745, ZF713, ZF714	KF708
Walter	–	–	Topcut, Inox	–
Weiler	–	–	Zirconium	A/O

The Perfect Product for Every Performance/Price Level



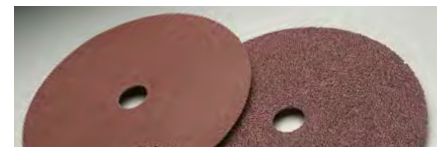
Norton Blaze

Latest generation ceramic alumina abrasive provides the industry's fastest cutting discs and 50-200% longer life on stainless, titanium, and super alloys.



Norton BlueFire

Durable zirconia abrasive blend for an increased cut rate and longer life over conventional zirconia products on high pressure applications.



Norton Metal

Versatile aluminum oxide abrasive provides a good starting specification, and good performance, when initial price is the primary purchasing consideration.

NORTON BLAZE F980 CERAMIC ALUMINA

BEST CHOICE FOR STAINLESS STEEL, TITANIUM, AND SUPER ALLOYS



EXPANDED OFFERING

FEATURES

- Micro-fracturing ceramic alumina grain
- 100% ceramic alumina grain
- Self-lubricating, advanced supersize treatment
- Strong resin bond system
- Extra heavy-duty backing on 50 grit and coarse disc

BENEFITS

- Constantly exposing sharper grain edges and improved grain life
- Significant cut rate and life over competitive blended/low-ratio ceramic alumina discs
- Minimizes heat, loading and glazing on stainless, titanium and super alloys
- Improved grain retention for longer life
- Increased life and durability

NORTON RED HEAT F981 AND F981S CERAMIC ALUMINA

BEST CHOICE/HIGHEST PRODUCTIVITY FOR MILD CARBON STEEL (F981), STAINLESS (F981S), AND FERROUS METALS



FEATURES

- Premium, self-sharpening full-ratio ceramic abrasive grain
- F981: durable, long lasting
- F981S: supersized grinding aid

BENEFITS

- Faster initial cut rate, longer life and improved finishes versus competitive ceramic discs
- Great performance-to-price ratio
- Excellent starting specifications when the performance of ceramic is needed
- Excellent performance on carbon steel
- Minimizes heat and loading on stainless and aluminum

NORTON BLUEFIRE F826P ZIRCONIA ALUMINA

BETTER CHOICE FOR STAINLESS, SUPER ALLOYS, STEEL, CAST IRON AND HIGH-PRESSURE APPLICATIONS



VENDIBLE

FEATURES

- High-performance zirconia alumina abrasive blend
- Vendible 10-disc package

BENEFITS

- 15% faster cut and longer life with less power draw than conventional zirconia discs
- Broad utility on a wide range of materials
- Ideal for vending machines, small jobs, or carrying to a job site

NORTON METAL F240 ALUMINUM OXIDE

GOOD CHOICE FOR SMALL JOBS, APPLICATIONS WHERE PERFORMANCE IS NOT MEASURED, AND PRICE-SENSITIVE OPERATIONS



FEATURES

- Multi-purpose aluminum oxide abrasive

BENEFITS

- Consistent performance
- Versatile; works on numerous materials
- Lowest initial price



TIER:	BEST	BEST	BEST	BETTER	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton
TRADENAME:	BLAZE F980	RED HEAT F981	RED HEAT F981S	BLUEFIRE F826P	METAL F240
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Ceramic Alumina	Zirconia Alumina Blend	Aluminum Oxide
OTHER:	Supersize		Supersize		

SIZE (D x H)	GRIT	STD. PKG.	PART #	PART #	PART #	PART #	PART #
4 x 5/8	24	25					05539510595
	36	25					05539510594
	50	25					05539510593
	60	25					05539510592
	80	25					05539510591
4-1/2 x 7/8	24	25	69957398000	77696008400	77696008462	66261138457	66623353309
	36	25	69957398001	77696008401	77696008465	66261138456	66623353306
	36	50 V				66623377276	
	50	25	69957398002	77696008402	77696008466	66261138454	66623353310
	60	25	69957398003	77696008403	77696008467	66261138453	66623353311
	60	50 V				66623377278	
	80	25	69957398004	77696008404	77696008470	66261138452	66623353312
	80	50 V				66623377279	
	100	25		77696008405			66623353313
	120	25	66254425332	77696008406			66623353314
5 x 7/8	16	25					05539510684
	24	25	69957398005	77696008407	77696008480	66261138563	66623357276
	36	25	69957398006	77696008412	77696008481	66261138562	66623357277
	36	50 V				66623377283	
	50	25	69957398007	77696008413	77696008482	66261138561	66623357278
	60	25	69957398008	77696008414	77696008483	66261138601	66623357279
	60	50 V				66623377285	
	80	25	69957398009	77696008422	77696008484	66261138600	66623357280
	100	25		77696008423			66623357281
	120	25	66254409084	77696008425			66623357282
6 x 7/8	24	25	66261160033				
	36	25	66261160034				
	50	25	66261160035				
	60	25	66261160036				
	80	25	66261160037				
7 x 7/8	16	25					05539510693
	24	25	69957398010	77696010018	77696010006	66261138594	66623357283
	36	25	69957398011	77696008429	77696010007	66261138593	66623357284
	36	50 V				66623377287	
	50	25	69957398012	77696008430	77696010008	66261138592	66623357285
	50	50 V				66623377289	
	60	25	69957398013	77696008431	77696010009	66261138591	66623357286
	80	25	69957398014	77696008432	77696010011	66261138590	66623357287
	100	25		77696008433			66623357288
	120	25	66254411528	77696008436			66623357289
9-1/8 x 7/8	24	25	69957398015	77696008437	77696010012	66261138584	05539510702
	36	25	69957398016	77696008440	77696010013	66261138583	05539510701
	50	25	69957398017	77696008444	77696010017	66261138582	
	60	25		77696008449			05539510699
	80	25		77696008452			
	100	25		77696008453			

Note: Fiber discs must be used with back-up pads shown on the last page of this section.

V = Vendible Package. Ideal for vending machines and small jobs. 10 discs/package, 5 packages per standard carton. Order in multiples of 50.

Speed-Change Fiber Discs

These fiber discs feature Norton quick, tool-free, twist-on and -off Speed-Change fasteners. Discs lock to standard back-up pads with a unique nut design and are easily removed, increasing your productivity with more time to grind.



TIER:	BEST	BEST	BETTER
BRAND:	Norton	Norton	Norton
TRADENAME:	BLAZE F980	RED HEAT F981	BLUEFIRE F826P
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Zirconia Alumina Blend
OTHER:	Supersize		

SIZE (D x H)	GRIT	STD. PKG.	PART #	PART #	PART #
4-1/2 x 5/8-11	24	25	66261023269	77696009735	
	36	25	66261185294	77696009737	
	50	25		77696009739	
	60	25	66261042247	77696009740	
	80	25	66623328529	77696009741	
	100	25		77696009746	
5 x 5/8-11	120	25		77696009747	
	24	25	66254425336	77696009748	66261138797
	36	25	66261185801	77696009749	66261138796
	50	25		77696009750	
	60	25	66261185803	77696009752	
	80	25	66623316697	77696009753	
7 x 5/8-11	100	25		77696009754	
	120	25		77696009755	
	24	25	69957349782	77696009759	66261138819
	36	25	66261029863	77696009760	66261138818
	50	25		77696009761	66261138817
	60	25	66261042249	77696009762	66261138816
	80	25	66254474373	77696009767	
	100	25		77696009771	
	120	25		77696009772	

Note: Speed Change fiber discs must always be used with smooth face back-up pads, see next page for details.

AVOS Fiber Discs

- Patented, see-through design allows interrupted cut which reduces heat up to 30% over standard discs
- The scooped holes create air flow to pull swarf away from grinding zone; cool cutting and extended product life
- 15° back-up pad for full utilization of discs – no gouging
- Quick, tool-free, twist-on and -off Speed-Lok fasteners



TIER:	BEST	BEST	BETTER
BRAND:	Norton	Norton	Norton
TRADENAME:	BLAZE F980	RED HEAT F981S	BLUEFIRE F826P
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Zirconia Alumina Blend

SIZE	GRIT	STD. PKG.	PART #	PART #	PART #
4-1/2 Speed-Lok (3 hole)	24	10	66254468389	77696008454	66261129718
	36	10	66254468390	77696008456	66261129719
	50	10	66254468391	77696008457	66261129720
	60	10	66254468392	77696008459	66261129721
	80	10	66254468393	77696008460	66261129722
5 Speed-Lok (3 hole)	24	10	66254468385	77696008471	66261126556
	36	10	66254468386	77696008474	66261126557
	50	10	66254468387	77696008475	66261126558
	60	10	66254468388	77696008477	66261126559
	80	10		77696008478	66261126560
7 Speed-Lok (6 hole)	24	10	66254468381	77696008485	66261137454
	36	10	66254468382	77696010001	66261137455
	50	10	66254468383	77696010002	66261137456
	60	10	66254468384	77696010003	66261137457
	80	10		77696010005	66261137458

Note: AVOS fiber discs must be used with AVOS Speed-Lok back-up pads, see next page for details.



Fiber Disc Accessories



Air-Cooled Standard Back-up Pad
Slotted hub design and curved ribs draw heat away from the grinding zone, reducing disc loading and increasing life. All pads have a 5/8"-11 threaded female hub for mounting. We also offer a no-nose pad for shorter-shafted right angle grinders.



Smooth Face Speed-Change Back-up Pad
Molded rubber back-up pads with a smooth face.

- Hard density pads are for aggressive cutting action
- Medium density pads are for all-purpose applications



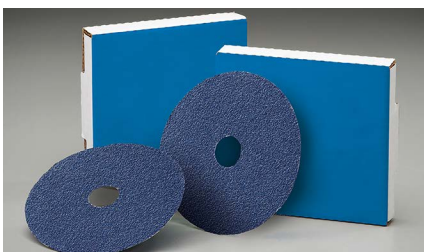
AVOS Fiber Disc Back-up Pad

- Patented, see-through design allows interrupted cut which reduces heat up to 30% over standard discs
- The scooped holes create air flow to pull swarf away from grinding zone; cool cutting and extended product life
- 15° back-up pad for full utilization of discs – no gouging
- Quick, tool-free, twist-on and -off Speed-Lok fasteners

DESCRIPTION	MAX. RPM	STD. PKG.	PART #
Rubber Back-up Pads			
Air-Cooled Standard			
4" Medium	12,000	5	63642504918
4-1/2" Medium	11,000	5	63642502122
5" Medium	10,000	5	63642543421
6"	8,500	1	66261160043
7" Hard	8,600	5	63642543425
7" Medium	8,600	5	63642543422
9" Hard	6,600	5	63642543426
9" Medium	6,600	5	63642543423
<i>Note: Retainer nuts are not included with back-up pads. These must be ordered separately.</i>			
Air-Cooled No-Nose			
4-1/2" Medium	11,000	5	63642504872
5" Medium	10,000	5	63642503000
7" Medium	8,600	5	66254487375+
Smooth Face / Speed-Change			
4-1/2" Medium	20,000	5	66254492277
5" Medium	12,000	5	63642543235
7" Hard	8,600	5	63642543240
7" Medium	8,600	5	63642543245
9" Medium	7,000	5	63642543270
AVOS Speed-Lok Back-up Pads			
AVOS Triangular Speed-Lok Back-up Pads			
4-1/2" x 5/8-11	13,000	5	63642502985
5" x 3/8-24 Pistol Grip*	20,000	5	63642503029
5" x 5/8-11	13,000	5	63642502517
5" x 7/16-20 Pistol Grip*	20,000	5	63642503030
AVOS Speed-Lok Back-up Pads – Round			
7 x 5/8-11 Hard	8,600	5	63642504873
*Use on air pneumatic and high-speed pistol grip Sanders			
Tools			
#103 Retainer Nut	—	10	63642543463
Spanner Wrench	—	5	63642543005
66NS Short Retainer Nut	—	10	63642543461

+ Non-stock. Ask your Norton representative for current order quantities, lead-times, and quotation.

All fiber disc back-up pads are packed in individual boxes within the shipping carton. Each box can be used in a vending machine.



Corner Store Convenience – Right on the Floor

Metal Fabrication Vending Solutions

– Industry's best selection of vendible abrasive solutions

See the many popular products conveniently pre-packed in small quantity packages

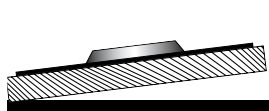
- Perfect for vending machines, pegboards, new test orders, small orders and jobs, and carrying cleanly to job site
- Pre-selected product assortment for optimal coverage of popular applications
- Available in fiber, flap, paper, and quick-change discs, belts, hand pads, depressed center, cut-off and bench wheels, mounted points, cones and plugs, and sharpening stones



Flap discs are versatile grinding and finishing tools having four main components: abrasive flaps, flap density (how the flaps are stacked), backing plate shape (flat or conical), backing plate material (fiberglass or plastic). All flap discs have flaps that are overlapped and glued to the backing plate. The flaps wear during use, exposing new abrasive grain. The different variations of the components above provide a variety of application choices ranging from heavy stock removal to blending to finishing. Flap discs are designed for portable grinder applications and can be the preferred choice over depressed center wheels or fiber discs.

Applications:	Grinding, stock removal, edge chamfering/beveling, weld blending, deburring/deflashing, rust removal, blending, cleaning and finishing
Size Range:	4": 5/8" hole 4-1/2" - 7": 5/8"-11 discard mount, 7/8" hole, and 2" - 3" quick-change
Grit Range:	24 - 120
Abrasive Grain:	Ceramic Alumina, Zirconia Alumina, and Aluminum Oxide
Abrasive Flaps:	Polyester, Cotton/Poly Blend
Flap Disc Shape:	Type 27 Flat and Type 29 Conical
Abrasive Flap Density:	Standard or high
Backing Plate Material:	Fiberglass and plastic
Machine Used:	

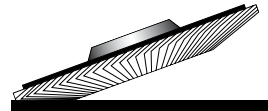
FLAP DISC SHAPES



GRIND AT FLATTER ANGLES:
0° - 15°

Type 27 Flat – The Best Choice for Finishing

- Used primarily on flat surfaces
- The best choice for blending and smooth finishing



GRIND AT STEEPER ANGLES:
15° - 25°

Type 29 Conical – The Best Choice for Aggressive Stock Removal

- Conical flap discs have angled flaps and may be used on both contoured and edge work
- The angle provides greater surface contact for stock removal on flat surfaces
- The best choice when speed and stock removal are primary considerations

ABRASIVE FLAP DENSITIES



Standard Density

- Excellent for heavy-duty applications and rapid stock removal

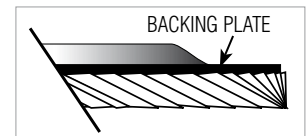


High Density

- Ideal when working on uneven or curved surfaces, as well as finer grit blending

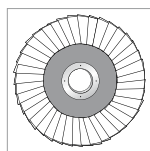
BACKING PLATE MATERIALS

All flap discs are a combination of abrasive flaps adhered to a rigid backing plate. It is the backing plate that provides stability during operation. There are two main materials used: fiberglass and plastic. The fiberglass backing plate, along with the flap shape, helps to absorb vibration and is consumed during use with no smearing. Fiberglass is the most popular material because of its high strength and light weight. The plastic backing plate offers some additional conformability and is trimmable.



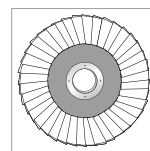
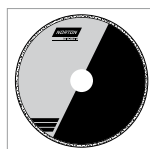
WHY CHOOSE FLAP DISCS?

Flap discs replace both grinding wheels and fiber discs. The same flap disc can be used for applications ranging from stock removal to blending.



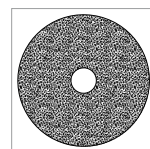
Flap Discs vs. Grinding Wheels

- Faster stock removal
- Smoother finish, no gouging
- Cooler cutting, less glazing
- Lightweight, easier to control
- Less vibration, less operator fatigue
- Reduced noise



Flap Discs vs. Fiber Discs

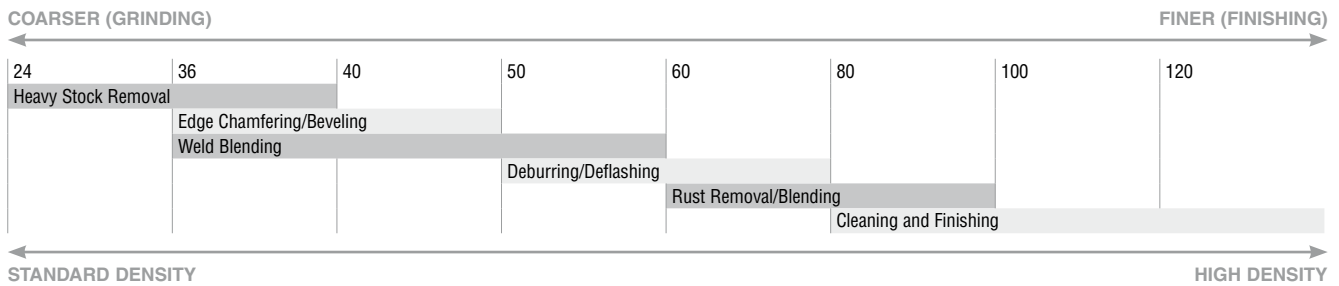
- 20X longer life, reduced abrasive cost
- Fewer disc changes, reduced labor cost
- More consistent finish
- No back-up pad required
- Easier storage, no curling
- Reduced loading
- Use flap discs one grit size coarser than fiber discs, except in 36 grit.



MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

	BEST Highest Productivity; Lowest Total Cost	BETTER Excellent Blend of Performance & Price	GOOD Consistent Performance; Low Initial Price
TYPE 29 FOR STOCK REMOVAL			
Stainless Steel / Titanium / Super Alloys	Norton Blaze R980P	Norton BlueFire R884P	Norton Metal R828
Mild Carbon Steel / Welds	Norton Red Heat R983	Norton BlueFire R884P	Norton Metal R828
Ferrous Metals / Cast Iron	Norton Red Heat R983	Norton BlueFire R884P	Norton Metal R828
Brass / Bronze / Aluminum	–	Norton BlueFire R884P	
TYPE 27 FOR BLENDING AND FINISHING			
Stainless Steel / Titanium / Super Alloys	Norton Blaze R980P	Norton BlueFire R884P	Norton Metal R828
Mild Carbon Steel / Welds	Norton Red Heat R983	Norton BlueFire R884P	Norton Metal R828
Ferrous Metals / Cast Iron	Norton Red Heat R983	Norton BlueFire R884P	Norton Metal R828
Brass / Bronze / Aluminum	–	Norton BlueFire R884P	Norton Metal R828

APPLICATION/GRIT RECOMMENDATION GUIDE



CROSS REFERENCE GUIDE

	TOTAL PERFORMANCE			INITIAL PRICE
NORTON	BEST		BETTER	GOOD
	Blaze R980P	Red Heat R983	BlueFire R884P	Norton Metal R828
3M	Cubitron II 967A, 947D	747D	563D, 546D	–
DeWalt	–	–	–	Z/A
Camel	–	C3	Z-Stainless	Z3
Flexovit	–	–	–	Zircotex Premium, Zircotex HP
Garryson	–	–	Zirc+, Zirconium	–
GemTex	–	Ceramic	–	Zirconia
Hermes	–	–	–	–
Klingspor	SMT 996	–	SMT 630	SMT 618, 619, 624, 626, 627, 628, 640
Metabo	–	–	–	Z/A
Pearl	Red Line CB	Stainless Max	Zirconia Premium, TuffMax	Z/A Silver Line
Pferd	CO-Cool	Ceramic	Cool Zirconia, CO-COOL	Zirconia
Sait	–	–	Z	–
SIA	–	–	–	Z/A
Standard	–	Ceramic Oxide	Zirconia Pro	Zirconia
Tyrolit	–	–	Z/A	–
Walter	Enduro-Flex Stainless	–	Enduro Flex	–
Weiler	–	Saber Tooth Ceramic	–	Tiger Zirconium, Vortec

When You Want Fast and Tough, You Want Norton

Whether you want maximum productivity or simply the lowest initial cost solution, Norton products are the solution for all your right angle grinding and blending applications.



BEST Norton Blaze
Highest Productivity – Lowest Total Cost



BETTER Norton BlueFire
Exceptional Blend of Performance and Price



GOOD Norton Metal
Good Performance – Low Initial Price

NORTON BLAZE R980P CERAMIC ALUMINA

BEST/HIGHEST PRODUCTIVITY FOR STAINLESS STEEL, TITANIUM, AND SUPER ALLOYS



EXPANDED OFFERING

FEATURES & BENEFITS

- Latest-generation ceramic alumina abrasive grain lasts 50% – 200% longer than any flap discs on stainless steel, cobalt, chrome, Inconel, titanium and other hard-to-grind materials
- Y-weight polyester flaps with a supersize grinding aid significantly improve life, grain retention, and fray resistance while providing a cool, noticeably fast cut rate
- High-strength fiberglass back on Type 29 and Type 27 High Density is durable, lightweight, and absorbs vibration
- Black, flexible plastic backing plate on Type 27 Quick Trim is the industry standard for trimmability
- 2" and 3" quick-change mini flap discs are ideal for tight spaces

NORTON RED HEAT R983 CERAMIC ALUMINA

BEST/HIGH PRODUCTIVITY FOR MILD CARBON STEEL, CAST IRON AND FERROUS METALS



NEW

FEATURES & BENEFITS

- Our exclusive premium ceramic alumina abrasive blend cuts faster and outlasts aluminum oxide and zirconia abrasives in most applications.
- New, thicker, Y+ weight engineered backing provides extended durability and reduced edge wear
- Advanced self-lubricating grain treatment reduces heat on hard-to-grind materials
- Trimtable Type 27 plastic backing discs are engineered for finishing
- Type 29 conical fiberglass backing flap discs excel at aggressive stock removal
- Type 29 fiberglass high-density flap discs last 40% longer than standard density flap discs on contoured surfaces

NORTON BLUEFIRE R884P ZIRCONIA ALUMINA

BETTER CHOICE FOR MILD CARBON STEEL, AND WELDS



FEATURES & BENEFITS

- High performance zirconia alumina plus abrasive for aggressive cut and long life, with up to 30% longer life than competitive zirconia alumina products
- Polyester flaps with semi-open coat provide improved durability and retards loading on aluminum
- High-strength fiberglass back on Type 29 and Type 27 High Density is durable, lightweight, and absorbs vibration
- Blue, flexible plastic backing plate on Type 27 Quick Trim is the industry standard for trimmability
- Vendible 2-disc package is ideal for vending machines, small jobs, or carrying to a job site
- 2" and 3" quick-change mini flap discs are ideal for tight spaces

NORTON METAL R828 ZIRCONIA ALUMINA

GOOD CONSISTENT PERFORMANCE WITH LOW INITIAL PRICE



EXPANDED OFFERING

FEATURES & BENEFITS

- Durable zirconia alumina abrasive provides good cut rate and life with consistent finish



TIER:	BEST	BEST	BEST	BETTER	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton	Norton
TRADENAME:	BLAZE R980P	RED HEAT R983	RED HEAT R983	BLUEFIRE R884P	METAL R828	METAL R828
SHAPE:	Type 29 Conical	Type 29 Conical	Type 29 Conical	Type 29 Conical	Type 29 Conical	Type 29 Conical
FLAP DENSITY:	Standard	Standard	High	Standard	Standard	High
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Ceramic Alumina	Zirconia Alumina Plus	Zirconia Alumina	Zirconia Alumina
BACKING PLATE:	Fiberglass	Fiberglass	Fiberglass	Fiberglass	Fiberglass	Fiberglass
OTHER:	Supersize	Supersize	Supersize			

SIZE (D x H)	GRIT	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #	PART #	PART #
Type 29 Conical									
4 x 5/8	36	15,300	10					66623399049	
	40	15,300	10					66623399050	
	60	15,300	10					66623399051	
	80	15,300	10					66623399052	
4-1/2 x 5/8-11	36	13,300	10	66261183490	66261132771			66254461165	66254419991
	36	13,300	10 V					66623341104 2-Pack	
	40	13,300	10	66261183491	66261132772	66261132844		66254461167	66254419994
	60	13,300	10	66261183492	66261132773	66261132845		66254461170	66254419996
	60	13,300	10 V					66623341105 2-Pack	
	80	13,300	10	66261183493	66261132774	66261132846		66254461173	66254419997
4-1/2 x 7/8	80	13,300	10 V					66623341106 2-Pack	
	120	13,300	10		66261132775				
	24	13,300	10					66623399204	
	36	13,300	10	66261183486	66261132776			66254461155	66254419963
	36	13,300	10 V					66623341107 2-Pack	
	40	13,300	10	66261183487	66261132777	66261132847		66254461161	66254419978
5 x 5/8-11	60	13,300	10	66261183488	66261132778	66261132848		66254461163	66254419984
	60	13,300	10 V					66623341108 2-Pack	
	80	13,300	10	66261183489	66261132779	66261132849		66254461164	66254419987
	80	13,300	10 V					66623341109 2-Pack	
	120	13,300	10		66261132780				
	36	12,000	10		66261132781			66623399189	
5 x 7/8	36	12,000	10 V					66623341110 2-Pack	
	40	12,000	10		66261132782			66623399190	
	60	12,000	10		66261132783			66623399191	
	80	12,000	10		66261132784			66623399192	
	120	12,000	10		66261132785				
	60	12,000	10	66261190001	66261132786			66623399206	
6 x 5/8-11	40	12,000	10	66261190002	66261132787			66254461174	66254419998
	60	12,000	10	66261190003	66261132788			66254461176	66254420001
	80	12,000	10	66261190004	66261132789			66254461177	66254420002
	120	12,000	10		66261132790			66254461178	66254420003
	40	10,200	10						66254491779
	60	10,200	10						66254491780
6 x 7/8	80	10,200	10						66254491781
	24	10,200	10					66623399066	
	36	10,200	10					66623399298	
	40	10,200	10		66261132791			66623399193	66254491776
	60	10,200	10		66261132792			66623399194	66254491777
	80	10,200	10		66261132793			66623399195	66254491778
7 x 5/8-11	36	8,600	10	66261183498	66261132794			66254461188	66254420009
	40	8,600	10	66261183499	66261132795	66261132850		66254461190	66254420010
	60	8,600	10	66261183500	66261132796	66261132851		66254461192	66254420012
	80	8,600	10	66261183501	66261132797	66261132852		66254461193	66254420013
	120	8,600	10		66261132798				
	24	8,600	10					66623399196	
7 x 7/8	36	8,600	10	66261183494	66261132799			66254461180	66254420004
	40	8,600	10	66261183495	66261132800	66261132853		66254461183	66254420006
	60	8,600	10	66261183496	66261132801	66261132854		66254461185	66254420007
	80	8,600	10	66261183497	66261132802 NS	66261132855		66254461186	66261132544
	120	8,600	10		66261132803				66261132545
									66261132546

V = Vendible package. 2 discs/pack; 5 packs/carton. Order in multiples of 10.
NS = Non-Stock



TIER:	BEST	BEST	BEST	BETTER	BETTER	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton	Norton
TRADENAME:	BLAZE R980P	BLAZE R980P	RED HEAT R983	BLUEFIRE R884P	BLUEFIRE R884P	METAL R828
SHAPE:	Type 27 Flat	Type 27 Flat	Type 27 Flat	Type 27 Flat	Type 27 Flat	Type 27 Flat
FLAP DENSITY:	Standard	High	Standard	Standard	High	Standard
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Ceramic Alumina	Zirconia Alumina Plus	Zirconia Alumina Plus	Zirconia Alumina
BACKING PLATE:	Quick Trim Plastic	Fiberglass	Quick Trim Plastic	Quick Trim Plastic	Fiberglass	Fiberglass
OTHER:		Supersize	Supersize			

SIZE (D x H)	GRIT	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #	PART #	PART #
Type 27 Flat									
4 x 5/8	40	15,300	10			66261132804			
	60	15,300	10			66261132805			
	80	15,300	10			66261132806			
4-1/2 x 5/8-11	36	13,300	10		66254499894		66623399136		66254472655
	36	13,300	10 V			66261132807	66623341086 2-Pack		
	40	13,300	10	66254400257	66261098290	66261132808	66623399137	77696090086	66254437013
	60	13,300	10	66254400258	66261096435	66261132809	66623399138	77696090087	66254472656
	60	13,300	10 V				66623341087 2-Pack		
	80	13,300	10	66254400259	66261096436	66261132810	66623399139	77696090088	66254472657
4-1/2 x 7/8	120	13,300	10	66254400261		66261132811			
	36	13,300	10	63642501865	66261097678	66261132812	66623399140	77696090081	66254472653
	40	13,300	10	66254400253	66261020628	66261132813	66623399141	77696090082	66254437004
	60	13,300	10	66254400254	66261020633	66261132814	66623399142	77696090083	66254448989
	60	13,300	10 V				66623341090 2-Pack		
	80	13,300	10	66254400255	66261020634	66261132815	66623399143	77696090084	66254448990
5 x 5/8-11	120	13,300	10	66254400256		66261132816		77696090085	
	36	12,000	10			66261132817	66623399144		
	40	12,000	10	77696090141	66261132141	66261132818	66623399145		
	60	12,000	10	77696090142	66261132142	66261132819	66623399146		
	80	12,000	10	77696090143	66261132144	66261132820	66623399147		
5 x 7/8	120	12,000	10	77696090144		66261132821			
	36	12,000	10			66261132822	66623399148		66254472659
	40	12,000	10	66254400262	66261132131	66261132823	66623399149		66254472660
	60	12,000	10	66254400264	66261132133	66261132824	66623399150		66254472661
	80	12,000	10	66254400265	66261132134	66261132825	66623399151		66254472662
	80	12,000	10 V				66623341097 2-Pack		
6 x 5/8-11	120	12,000	10	66254400519		66261132826			
	40	10,200	10	66261132128	66261132145	66261132827			66254491773
	60	10,200	10	66261132129	66261132146	66261132828			66254491774
	80	10,200	10	66261132130	66261132147	66261132829			66254491775
6 x 7/8	40	10,200	10	66261132123	66261132135	66261132830	66623399152		66254491770
	60	10,200	10	66261132124	66261132136	66261132831	66623399153		66254491771
	80	10,200	10	66261132125	66261132137	66261132832	66623399154		66254491772
	120	10,200	10			66261132833			
7 x 5/8-11	36	8,600	10			66261132834	66623399155		66254472669
	40	8,600	10	66254461066	66261132148	66261132835	66623399156	77696090092	66254472670
	60	8,600	10	66254461067	66261132168	66261132836	66623399157	77696090093	66254472671
	80	8,600	10	66254461068	66261132171	66261132837	66623399158	77696090094	66254472672
	120	8,600	10	66254461069		66261132838			
7 x 7/8	36	8,600	10	63642501866		66261132839	66623399159		66254472664
	40	8,600	10	66254461059	66261132138	66261132840	66623399160	77696090089	66254472665
	60	8,600	10	66254461060	66261132139	66261132841	66623399161	77696090090	66254472666
	80	8,600	10	66254461061	66261132140	66261132842	66623399162	77696090091	66254472667
	120	8,600	10	66254461063		66261132843			

V = Vendible package. Ideal for vending machines & small jobs. 2 Flap Discs/pack, 5 packs/carton. Order in multiples of 10.

NORTON BLUEFIRE R884P ZIRCONIA ALUMINA

PACKAGED FOR RETAIL / WALK-IN SELLING / SMALL JOBS



FEATURES & BENEFITS

- Zirconia alumina plus abrasive for aggressive cut and long life
- Individual hang card provides product selling points
- Product ships in merchandisable display case of small quantities
- Available wire rack (with header card) allows merchandising of 4" and 4-1/2" product three ways: hung on pegboard, mounted on an upright, or placed on a shelf/counter

TIER: **BETTER**
 BRAND: Norton
 TRADENAME: **BLUEFIRE R884P**
 SHAPE: Type 29
 FLAP DENSITY: Standard
 ABRASIVE: Zirconia Alumina Plus
 BACKING PLATE: Fiberglass

SIZE (D x H)	GRIT	MAX. RPM	STD. PKG.	PART #
4 x M-10	40	15,300	5	07660703214
	60	15,300	5	07660703215
	80	15,300	5	07660703216
4-1/2 x 5/8-11	40	13,300	5	07660703211
	60	13,300	5	07660703212
	80	13,300	5	07660703213
7 x 5/8-11	40	8,600	5	07660703205
	60	8,600	5	07660703206
	80	8,600	5	07660703207
Wire Rack			2	07660704157



WIRE RACK (WITH HEADER CARD) ALLOWS MERCHANDISING OF 4" AND 4-1/2" PRODUCT THREE WAYS: HUNG ON PEGBOARD, MOUNTED ON AN UPRIGHT, OR PLACED ON A SHELF/COUNTER

NORTON MINI FLAP DISCS

PACKAGED FOR RETAIL / WALK-IN SELLING / SMALL JOBS

FEATURES & BENEFITS

- High performance ceramic and zirconia alumina abrasive blend provides maximum cut rate and life
- Layered flaps wear away evenly, producing a high quality and consistent finish



TIER:	BEST	BETTER	BEST	BETTER
BRAND:	Norton	Norton	Norton	Norton
TRADENAME:	BLAZE R980P	BLUEFIRE R884P	BLAZE R980P	BLUEFIRE R884P
ABRASIVE:	Ceramic Alumina	Zirconia Alumina Plus	Ceramic Alumina	Zirconia Alumina Plus
FLAP:	Polyester	Polyester	Polyester	Polyester
BACKING MATERIAL:	Extra Heavy-Duty Plastic	Extra Heavy-Duty Plastic	Extra Heavy-Duty Plastic	Extra Heavy-Duty Plastic
ATTACHMENT:	TR (Type III)	TR (Type III)	TS (Type II)	TS (Type II)



SIZE (D)	GRIT	STD. PKG.	PART #	PART #	PART #	PART #
2	36	10	77696090145	77696090165	77696090155	77696090175
	40	10	77696090146	77696090166	77696090156	77696090176
	60	10	77696090147	77696090167	77696090157	77696090177
	80	10	77696090148	77696090168	77696090158	77696090178
	120	10	77696090149	77696090169	77696090159	77696090179
3	36	10	77696090150	77696090170	77696090160	77696090180
	40	10	77696090151	77696090171	77696090161	77696090181
	60	10	77696090152	77696090172	77696090162	77696090182
	80	10	77696090153	77696090173	77696090163	77696090183
	120	10	77696090154	77696090174	77696090164	77696090184

DESCRIPTION	MAX. RPM	STD. PKG.	TR (TYPE III)	TS (TYPE II)
Mini Flap Disc Back-up Pads				
2" Medium Density Back-up Pad	30,000	1	08834164922	08834164198
3" Medium Density Back-up Pa	20,000	1	08834164949	08834164113



For use on dual action and random orbital sanders. The industry's highest performing and broadest selection of paper discs in PSA (pressure sensitive adhesive) disc rolls and individual discs, and hook and loop discs.

- Applications:** Stripping and preparing primed and painted surfaces for finishing, sanding of plastics, fiberglass and composites, bare wood sanding, light weld blending, preparing and finishing metal, and sanding of all gel coat and body filler compounds
- Size Range:** 3" – 8"
- Grit Range:** 36 – 1500
- Abrasive Grain:** Ceramic Alumina, Zirconia Alumina, Aluminum Oxide, Silicon Carbide
- Attachment Systems:** PSA (pressure-sensitive adhesive), hook and loop
- Paper Weights:** Heavyweight – E and F; Lightweight – B and C
- Vacuum Holes:** See product availability charts
- Machine Used:**



MATERIAL/APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

	BEST Highest Productivity Lowest Total Cost		BETTER Excellent Blend of Performance & Price		GOOD Consistent Performance: Low Initial Price
	Heavy-Medium Stock Removal	Light Stock Removal-Finishing	Heavy-Medium Stock Removal	Light Stock Removal-Finishing	Light Stock Removal-Finishing
Primed, Painted Surfaces		Dry Ice A975	BlueFire H875P	OP A275	Gold Reserve A296
Fiberglass / Composites / Gel Coats		Dry Ice A975	BlueFire H875P	OP A275	Gold Reserve A296
Wood		Dry Ice A975	BlueFire H875P	OP A275	Gold Reserve A296
Metal	Norton SG H920	Dry Ice A975	BlueFire H822	OP A275	Gold Reserve A296
Body Fillers / Compounds / Plastics		Dry Ice A975	BlueFire H875P	OP A275	Gold Reserve A296

APPLICATION/GRIT RECOMMENDATION GUIDE

COARSER (GRINDING)										FINER (FINISHING)									
36	40	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500
Roughing to Intermediate				Intermediate to Finishing						Fine Finishing						Ultra Fine Finishing			

CROSS REFERENCE GUIDE

	TOTAL PERFORMANCE							INITIAL PRICE	
	BEST		BETTER			GOOD		C-Wt.	B-Wt.
NORTON	F-Wt.	B- & C-Wt.	F-Wt.	E-Wt.	B-Wt.	B-Wt.-Wt.	B-Wt.	C-Wt.	B-Wt.
	Norton SG H920	Dry Ice A975	BlueFire H822	BlueFire H875P	OP A275	A270	Durite A475	A290	Gold Reserve A296
3M	763U, 751I	734U, 735U, 765L	–	750U, 751U, 740I, 745I	216U, 255L, 260L, 334U	210U, 268L, 360L	414N, 415N, 405N, 415U, 435U	236U	214U, 316U Red. NX
Hermes	CB115	–	BW 115	–	VC154-LL	VC152	PSF-LL, SF168	HCAB-LL, HC135, VC151-LL	–
Indasa	–	–	–	–	RedLine	–	–	–	WhiteLine
Klingspor	–	PS36	PS20, PS21, PS22	–	PS33	–	PL35	PS33	PL36
Mirka	–	–	–	Royal Coarse Cut	Q-Silver, Royal, Royal Micro	Silver	CaratFlex, PolarStar	Bulldog Gold, Basecut	Carat (B), Basecut
SIA	–	1950	1820, 1919	1820, 1919	1940, 1950	–	1748	1947	–
VSM	–	–	–	KP510E, KP709	MPG	–	CP131A	KP911	MP10

Heavyweight Paper Discs

NORTON SG H920 CERAMIC ALUMINA

BEST CHOICE FOR MOST DEMANDING STOCK REMOVAL APPLICATIONS



FEATURES

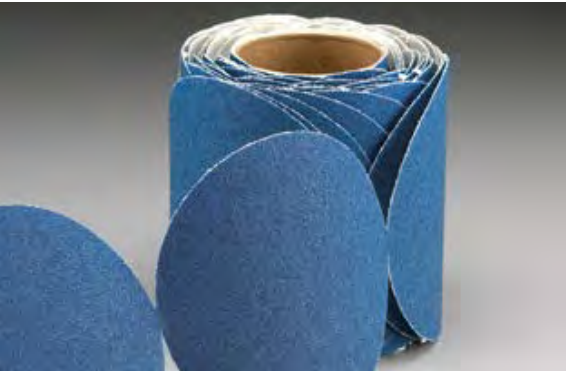
- Durable and friable Norton SG ceramic alumina abrasive
- Strong, heavy F-weight paper, synthetically-coated

BENEFITS

- Fast aggressive cutting action, yet cool cutting
- Maximum durability and resistance to edge chipping and shedding
- Premier product for metal fabricating and blending; ideal for soldered and welded areas

NORTON BLUEFIRE H822 ZIRCONIA ALUMINA

BETTER CHOICE FOR AGGRESSIVE METALWORKING APPLICATIONS

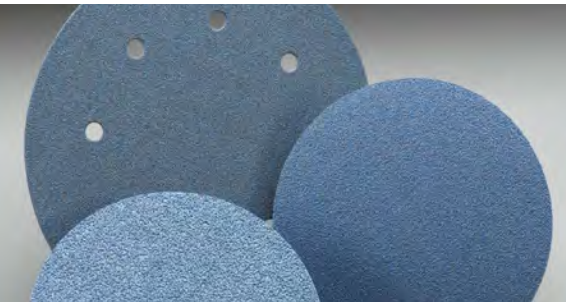


FEATURES & BENEFITS

- Patented zirconia alumina abrasive provides 2X-3X life over aluminum oxide products
- Strong F-weight paper, synthetically-coated for excellent durability and chip resistance
- Designed for “metal in the white” and a variety of wood sanding operations where aggressive cutting action and extra durable backing are needed
- Non-stearated (no anti-loading agents) for non-contaminating; often required for prime auto and aerospace paint applications
- Pressure sensitive adhesive and linked disc roll format allow easy application, removal, and dispensing

NORTON BLUEFIRE H875P ZIRCONIA ALUMINA

BETTER CHOICE FOR SOFT MATERIAL AND WOOD APPLICATIONS



FEATURES

- Next-generation zirconia alumina abrasive
- Strong, heavy, E-weight paper
- Open coat design

BENEFITS

- Extended life over original zirconia alumina products
- Improved cut rate
- Increased durability and chip resistance, flexible
- Reduced loading; ideal for body-filler, fiberglass, wood and composites

Stick & Sand (PSA)
Heavyweight Disc Rolls
Non-Vacuum



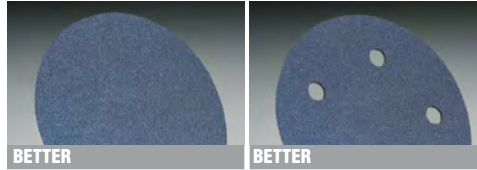
TIER:	BEST	BETTER	BETTER
BRAND:	Norton	Norton	Norton
TRADENAME:	SG H920	BLUEFIRE H822	BLUEFIRE H875P
ABRASIVE:	Ceramic Alumina	Zirconia Alumina	Zirconia Alumina
PAPER BACKING WEIGHT:	F-Weight	F-Weight	E-Weight
FASTENING:	PSA	PSA	PSA

SIZE	GRIT	ROLLS/STD. PKG.	DISCS/ ROLL	PART #	PART #	PART #
5	60	4	100	66261149873	66261137310	
	80	4	100	66261149872	66261137309	66261124977
	100	4	100	66261149871	66261137308	
	120	4	100	66261149870	66261137307	
6	60	4	100		66261137323	
	80	4	100	66261149876	66261137322	66261125573
	120	4	100	66261149874		
8	100	4	50	66261149879		
	120	4	50		66261137333	

Refer to the end of this section for back-up pads and accessories.

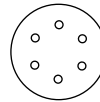
Heavyweight Paper Discs

Stick & Sand (PSA)
Individual Discs
Non-Vacuum and Vacuum



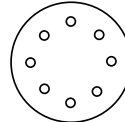
TIER:	BETTER	BETTER
BRAND:	Norton	Norton
TRADENAME:	BLUEFIRE H875P	BLUEFIRE H875P
ABRASIVE:	Zirconia Alumina	Zirconia Alumina
PAPER BACKING WEIGHT:	E-Weight	E-Weight
FASTENING:	PSA	PSA Vacuum

SIZE	GRIT	MIN./STD PKG.	PART #	PART #
5"	36	50/200	66261125436	
	40	50/200	66261125307	
	80	50/200	66261125244	



6" X 6 Hole
Die #3371

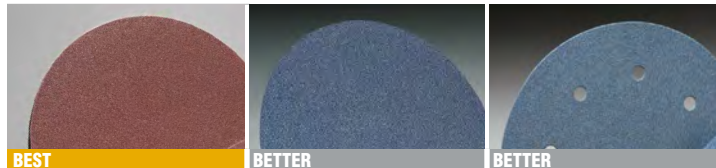
6"	36	50/200	66261123575	
	40	50/200	66261123574	66261123580
	80	50/200	66261123573	



8" X 8 Hole
Die #3370

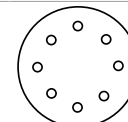
8"	36	25/100	66261123578	66261123584
	40	25/100	66261123577	
	80	25/100	66261123576	66261123582

Hook & Loop
Individual Discs
Non-Vacuum and Vacuum



TIER:	BEST	BETTER	BETTER
BRAND:	Norton	Norton	Norton
TRADENAME:	SG H920	BLUEFIRE H875P	BLUEFIRE H875P
ABRASIVE:	Ceramic Alumina	Zirconia Alumina	Zirconia Alumina
PAPER BACKING WEIGHT:	F-Weight	E-Weight	E-Weight
FASTENING:	Hook & Loop	Hook & Loop	Hook & Loop
OTHER:			Vacuum

SIZE	GRIT	MIN./STD PKG.	PART #	PART #	PART #
5"	40	25/100		66261125684	
	60	50/250	66261149864		
	80	50/250	66261149865	66261125444•	
	100	50/250	66261149866		
	120	50/250	66261149867		
6"	36	25/100		66261123590	
	40	25/100		66261123589	
	80	25/100		66261123588	



8 in. x 8 Hole
Die #3370

8"	36	25/100		66261123593	66261123598
	40	25/100		66261123592	
	80	25/100		66261123591	66261123596

Packaging Standards: Min. / Std. Pkg. • H875P = 25/100

Lightweight Paper Discs

NORTON DRYICE A975 NO-FIL CERAMIC ALUMINA

BEST CHOICE FOR THE MOST DEMANDING SANDING APPLICATIONS

FEATURES

- P-graded Norton SG ceramic alumina abrasive
- Unique fiber-reinforced, flexible B- and C-weight latex-saturated backing
- Water-based No-Fil stearate, non-pigmented
- EXPANDED OFFERING! Multi-Air Cyclonic A975 hook and loop laser-cut vacuum discs

BENEFITS

- Fastest cut rate; longest life of any paper disc
- 50-60% improvement in tear strength, longer life in all applications
- Flexible
- Provides maximum load resistance and extended life
- No color transfer to work
- Revolutionary design for maximum vacuum assist (see product page for more details and availability)

NORTON OP A275 NO-FIL ALUMINUM OXIDE

BETTER CHOICE FOR HIGH-PERFORMANCE DRY FINISHING ON ALL MATERIALS

FEATURES

- Premium P-graded, heat-treated aluminum oxide abrasive
- Unique fiber-reinforced, flexible B-weight latex-saturated backing
- Water-based stearate, non-pigmented, No-Fil coating
- 5" and 6" individual PSA discs in fine grits have a tabbed, white translucent liner

BENEFITS

- Superior life, fast cut rate, consistent finish
- 50-60% improvement in tear strength
- Flexible
- Provides maximum load resistance and extended life
- No color transfer to work
- The PSA adhesive is protected from airborne contaminants
- The tab allows easier removal of the paper liner

NORTON DURITE A475 NO-FIL SILICON CARBIDE

BETTER CHOICE FOR HARD-TO-SAND SURFACES AND WOOD APPLICATIONS

FEATURES

- P-graded, hard, silicon carbide abrasive
- Water-based stearate, non-pigmented, No-Fil coating
- Durable, fiber-reinforced, B-weight latex paper

BENEFITS

- Easy penetration of the hardest surfaces
- Resists loading for the longest usable product life
- No color transfer to work
- Provides flexibility and resistance to tearing

NORTON GOLD RESERVE A296 NO-FIL ALUMINUM OXIDE

GOOD CHOICE FOR SANDING A BROAD RANGE OF SUBSTRATES INCLUDING PRIMED OR PAINTED SURFACES, WOOD, COMPOSITES, ALUMINUM, AND FERROUS METALS

FEATURES

- P-graded premium aluminum oxide abrasive produces a quick, cool cut and a more consistent surface finish
- Strong B-weight latex/paper backing resists tearing while staying conformable and flexible
- Water-based, non-loading (No-Fil) stearate resists clogging and increases disc life
- Pressure sensitive adhesive disc roll, and hook and loop disc options allow easy application, removal, and dispensing

BENEFITS



Lightweight Paper Discs

Stick & Sand (PSA)
Lightweight Disc Rolls
Non-Vacuum



TIER:	BEST	BETTER	BETTER	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton
TRADENAME:	DRYICE A975 NO-FIL	OP A275 NO-FIL	DURITE A475 NO-FIL	GOLD RESERVE A296 NO-FIL	A290 NO-FIL
ABRASIVE:	Ceramic Alumina	Aluminum Oxide	Silicon Carbide	Aluminum Oxide	Aluminum Oxide
PAPER BACKING WEIGHT:	B- & C-Weight	B-Weight	B-Weight	B-Weight	C-Weight
FASTENING:	PSA	PSA	PSA	PSA	PSA
OTHER:	P-Graded	P-Graded	P-Graded	P-Graded	P-Graded

SIZE	GRIT	ROLLS/ STD. PKG.	DISCS/ ROLL	PART #	PART #	PART #	PART #	PART #
3-1/2	80	4	100		66261136376			
	120	4	100		66261136375			
	180	4	100		66261136373			
	220	4	100		66261136372			
	280	4	100		66261136370			
	320	4	100		66261136369			
5	400	4	100		66261136368			
	60	4	100					66261149831
	80	4	100	66261140502	66261131464*	66254487415	66261183806	66261149830
	100	4	100	66261140501	66261131463*	66254487417	66261183807	66261149829
	120	4	100	66261140500	66261131462*	66254487418	66261183808	66261149828
	150	4	100	66261140499	66261131461*	66254487440	66261183809	66261149827
	180	4	100	66261140498	66261131460*	66254487441	66261183810	66261149826
	220	4	100	66261142474	66261131459*	66254487442	66261183811	66261149825
	240	4	100	66261155380	66261131458*	66254487443	66261183812	66261149824
	280	4	100	66261155379	66261131457*			66261149823
	320	4	100	66261155378	66261131456*	66254487444	66261183813	66261149822
	400	4	100	66261155377	66261131454*	66261065293	66261183814	66261149821
	500	4	100		66261131453*			
	600	4	100	66623305608	66261131452*	66254421217		
800	4	100	66254480230	66261131451*	66254401221			
6	60	4	100					66261149847
	80	4	100	66261140512	66261131481*	66254487446	66261183815	66261149842
	100	4	100	66261140511	66261131480*		66261183816	66261149841
	120	4	100	66261140510	66261131479*	66254487447	66261183817	66261149840
	150	4	100	66261140509	66261131478*		66261183818	66261149839
	180	4	100	66261140508	66261131477*	66254487448	66261183819	66261149838
	220	4	100	66261148340	66261131476*	66254487449	66261183820	66261149837
	240	4	100	66261155376	66261131475*		66261183821	66261149836
	280	4	100		66261131474*			66261149835
	320	4	100	66261155374	66261131473*	66254487450	66261183822	66261149834
	400	4	100	66261155373	66261131471*		66261183823	66261149833
	500	4	100	63642506198	66261131470*			
	600	4	100	63642506199	66261131469*		66261040261	
	800	4	100	63642506200	66261131468*		63642506164	
8	80	4	100		66261131617			
	120	4	100		66261131615			
	150	4	100		66261131614			
	180	4	100		66261131613			
	220	4	100		66261131612			
320	4	100		66261131609				

* Packaging Standards A275 = 6/100

Refer to the end of this section for back-up pads and accessories.

Lightweight Paper Discs

Stick & Sand (PSA)
Lightweight Disc Rolls
Vacuum



TIER: **BETTER**
 BRAND: Norton
 TRADENAME: **OP A275 NO-FIL**
 ABRASIVE: Aluminum Oxide
 PAPER BACKING WEIGHT: B-Weight
 FASTENING: PSA
 OTHER: P-Graded





TIER: **GOOD**
 BRAND: Norton
 TRADENAME: **A290 NO-FIL**
 ABRASIVE: Aluminum Oxide
 C-Weight
 PSA
 P-Graded



Stick & Sand (PSA)
Individual Discs
Non-Vacuum



TIER: **BETTER**
 BRAND: Norton
 TRADENAME: **OP A275 NO-FIL**
 ABRASIVE: Aluminum Oxide
 PAPER BACKING WEIGHT: B-Weight
 FASTENING: PSA Tabbed
 OTHER: P-Graded

SIZE	GRIT	ROLLS/ STD. PKG.	DISCS/ ROLL	PART #	ROLLS/ STD. PKG.	DISCS/ ROLL	PART #
				 5 in. X 5 Hole Die #3329			 5 in. X 5 Hole Die #3329
5"	60				4	100	66261130266
	80	6	100	66261131498	4	100	66261130265
	100	6	100	66261131497	4	100	66261130264
	120	6	100	66261131496	4	100	66261130263
	150	6	100	66261131495	4	100	66261130262
	180	6	100	66261131494	4	100	66261130261
	220	6	100	66261131493	4	100	66261130260
	240	6	100	66261131492	4	100	66261130259
	320	6	100	66261131490	4	100	66261130258
	400	6	100	66261131488			
	500	6	100	66261131487			

SIZE	GRIT	MIN./ STD PKG.	PART #
5"	1000	100/400	66261131450
	1200	100/400	66261131449
6"	36	50/200	
	1000	100/400	66261131467
	1200	100/400	66261131466
	1500	100/400	66261131465

SIZE	GRIT	ROLLS/ STD. PKG.	DISCS/ ROLL	PART #	ROLLS/ STD. PKG.	DISCS/ ROLL	PART #
				 6 in. X 6 Hole Die #3333			 6 in. X 6 Hole Die #3333
6"	80	6	100	66261131515	4	100	66261130276
	100	6	100	66261131514	4	100	66261130275
	120	6	100	66261131513	4	100	66261130274
	150	6	100	66261131512	4	100	66261130273
	180	6	100	66261131511	4	100	66261130272
	220	6	100	66261131510	4	100	66261130271
	240	6	100	66261131509			
	280	6	100	66261131508			
	320	6	100	66261131507	4	100	66261130268
	400	6	100	66261131505			
	600	6	100	66261131503			

Refer to the end of this section for back-up pads and accessories.



PSA Disc Roll Dispenser

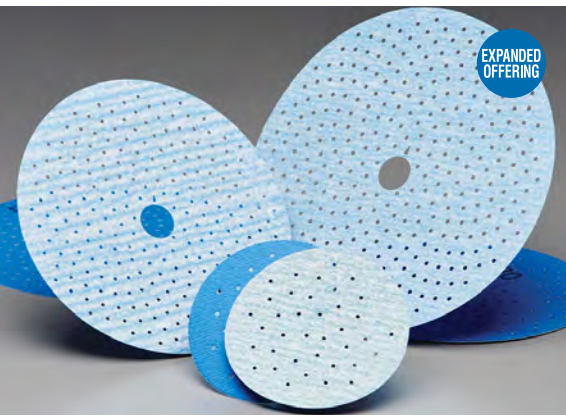
- Norton disc roll dispensers feature heavy-duty construction and a rubberized finish to protect your product, as well as the finish on your workpiece
- These versatile dispensers are designed to accommodate any 5" or 6" disc roll or sheet roll
- They can be attached to a wall or stacked for multi-grit or multi-diameter operations
- Discs are individually dispensed and removed from the roll by a cutter bar

DESCRIPTION	STD. PKG.	PART #
PSA Disc Roll Dispenser		
Single Disc Roll Dispenser	1	63642542772
Double Disc Roll Dispenser (shown)	1	63642502981

Lightweight Paper Discs

MULTI-AIR CYCLONIC HOOK & LOOP VACUUM

LESS DUST; MORE PRODUCTIVITY



FEATURES

- Precision laser-cut, spiral-hole design based on the Golden Ratio
- Norton SG ceramic alumina grain
- Unique fiber-reinforced latex/paper backing
- Water-based stearate coating (No-Fil)

BENEFITS

- Maximum dust extraction for cleaner work environment and less potential for contamination
- Consistent cut throughout the life of the disc
- Superior cut on difficult to sand surfaces
- Substantially longer life and faster cut than conventional abrasives
- Quick, cool cut
- Flexible, strong and tear resistant
- Load resistant for extended product life



TIER: **BEST**

BRAND: Norton

TRADENAME: **DRY ICE A975 NO-FIL**

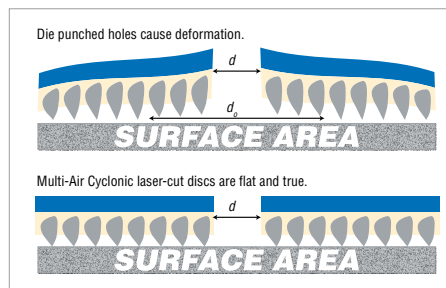
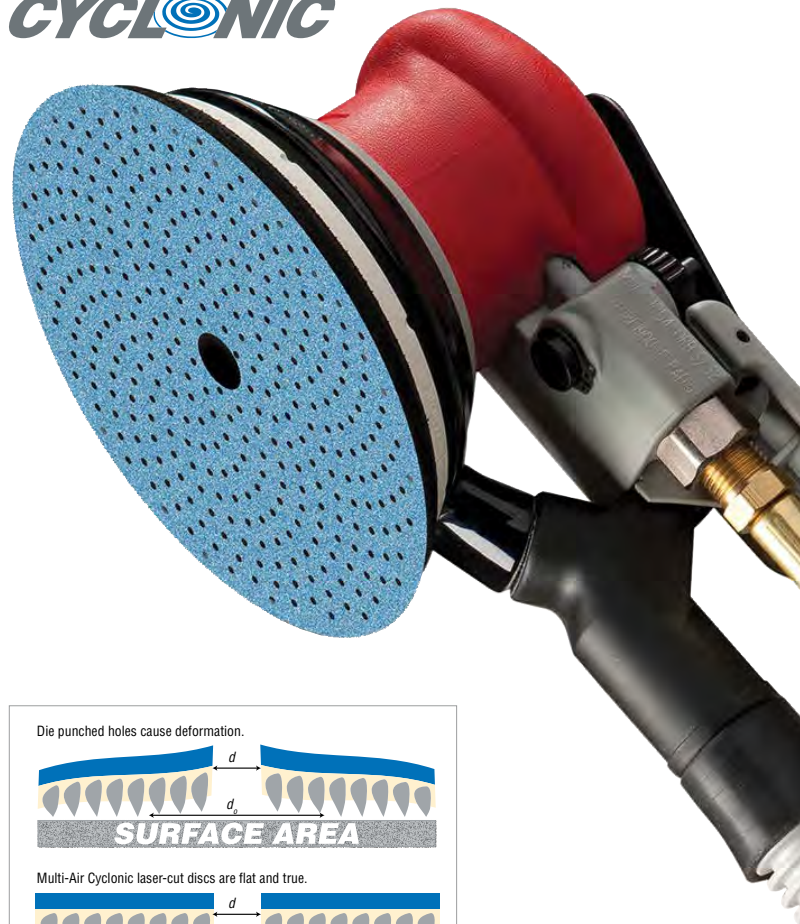
ABRASIVE: Ceramic Alumina

PAPER BACKING WEIGHT: B- & C-Weight

FASTENING: Hook & Loop

OTHER: P-Graded

SIZE	GRIT	MIN./STD PKG.	PART #
3"	80	50/200	77696095005
	120	50/200	77696095006
	150	50/200	77696095007
	180	50/200	77696095008
	220	50/200	77696095009
	240	50/200	77696095010
	320	50/200	77696095011
	400	50/200	77696095012
	500	50/200	77696095013
	600	50/200	77696095014
5" x 11/16" (125mm x 18mm)	80	50/200	77696007745
	120	50/200	77696007753
	150	50/200	77696007755
	180	50/200	77696007756
	220	50/200	77696007757
	240	50/200	77696007760
	280	50/200	77696007762
	320	50/200	77696007763
	400	50/200	77696007765
	500	50/200	77696007768
6" x 11/16" (150mm x 18mm)	80	50/200	77696007770
	120	50/200	77696007773
	150	50/200	77696007774
	180	50/200	77696007775
	220	50/200	77696007776
	240	50/200	77696007777
	280	50/200	77696007778
	320	50/200	77696007781
	400	50/200	77696007784
	500	50/200	77696007785
600	50/200	77696007786	
800	50/200	77696007787	
1000	50/200	77696007788	

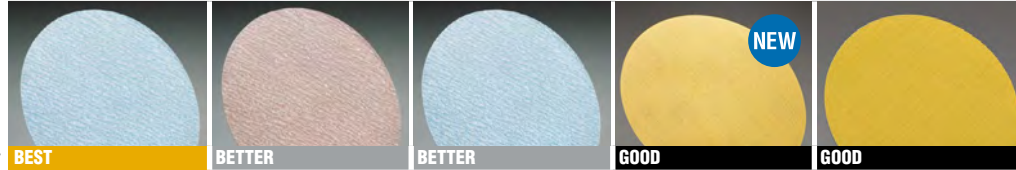


Improved Dust Extraction / Increased Productivity
The upgrade to precise, flat, laser-cut holes instead of die-punched holes, dramatically increases surface area contact allowing Norton Multi-Air Cyclonic discs to improve productivity by 32% versus conventional multi-hole sanding and by 60% versus non-vacuum sanding.
The end result is more holes for dust extraction, more abrasive coverage for a better cut and no deformation – for full surface contact utilizing all the cutting power of the premium ceramic grain.

Refer to the end of this section for back-up pads and accessories for Norton Multi-Air Cyclonic Discs.

Lightweight Paper Discs

Hook & Loop
Individual Discs
Non-Vacuum



TIER:	BEST	BETTER	BETTER	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton
CAP CODE:	DRY ICE A975 NO-FIL	OP A275 NO-FIL	DURITE A475 NO-FIL	GOLD RESERVE A296 NO-FIL	A290 NO-FIL
ABRASIVE:	Ceramic Alumina	Aluminum Oxide	Silicon Carbide	Aluminum Oxide	Aluminum Oxide
PAPER BACKING WEIGHT:	B- & C-Weight	B-Weight	B-Weight	B-Weight	C-Weight
FASTENING:	Hook & Loop	Hook & Loop	Hook & Loop	Hook & Loop	Hook & Loop
OTHER:	P-Graded	P-Graded	P-Graded	P-Graded	P-Graded

SIZE	GRIT	MIN./STD PKG.	PART #	PART #	PART #	PART #	PART #	
3"	80	50/200		66261131532				
	100	50/200		66261144926				
	120	50/200		66261128688				
	150	50/200		66261140385				
	180	50/200		66261131528				
	220	50/200		66261131527				
	240	50/200		66261131526				
	320	50/200		66261131524				
	400	50/200		66261136995				
	500	50/200		66261131521				
	600	50/200		66261136996				
	800	50/200		66261131519				
	1000	50/200		66261135900				
	1500	50/200		66261147434				
5"	60	100/400					66261130224	
	80	100/400	66261140522‡	66261131549		66623377539	66261149907	
	100	100/400	66261140521‡	66261131548			66261149906	
	120	100/400	66261140520‡	66261131547		66623377541	66261149905	
	150	100/400	66261140519‡	66261131546		66623377542	66261149904	
	180	100/400	66261140518‡	66261131545		66623377543	66261149903	
	220	100/400	66261149541‡	66261131544		66623305637	66261149902	
	240	100/400	66261149540‡	66261131543		66254457751		
	280	100/400		66261131542				
	320	100/400	66261149538‡	66261131541		66623305638	66261149900	
	400	100/400	66261149537‡	66261131539	66261052270	66623305639	66261149899	
	500	100/400	66254480233‡	66261131538				
	600	100/400		66261131537	66254421221	66261105390		
	800	100/400	66254480232‡	66261131536	66261052267	66623377544		
	1000	100/400		66261131535	66261052254			
	1200	100/400		66261131534				
1500	100/400		66261131533					
6"	80	100/400	66261140532‡	66261131566		63642506236*	66261149916	
	100	100/400	66261140531‡	66261131565		63642506235*	66261149915	
	120	100/400	66261140530‡	66261131564		63642506234*	66261149914	
	150	100/400	66261140529‡	66261131563		63642506233*	66261149913	
	180	100/400	66261140528‡	66261131562		63642506232*	66261149912	
	220	100/400	66261149546‡	66261131561		63642506231*	66261149911	
	240	100/400		66261131560		63642506225*		
	280	100/400		66261131559			66261149910	
	320	100/400	66261149543‡	66261131558		63642506230*	66261149909	
	400	100/400	66261149542‡	66261131556		63642506229*	66261149908	
	500	100/400	63642506202‡	66261131555		63642506228*		
	600	100/400	63642506203‡	66261131554		63642506227*		
	800	100/400	63642506204‡	66261131553		63642506226*		
	1000	100/400	63642506375‡	66261131552	66261052255			
	1200	100/400	63642506376‡	66261131551				
	1500	100/400	63642506377‡	66261131550				
	8"	120	100/400		66261131662			
		180	100/400		66261131661			

Packaging Standards: Min. / Std. Pkg. ‡ A975 = 50/200 * A296 = 50/250

Refer to the end of this section for back-up pads and accessories.

Lightweight Paper Discs

Hook & Loop
Individual Discs
Vacuum



TIER:	BEST	BETTER	GOOD	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton
CAP CODE:	DRY ICE A975 NO-FIL	OP A275 NO-FIL	GOLD RESERVE A296 NO-FIL	A290 NO-FIL	A290 NO-FIL
ABRASIVE:	Ceramic Alumina	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
PAPER BACKING WEIGHT:	B- & C-Weight	B-Weight	B-weight	C-Weight	C-Weight
FASTENING:	Hook & Loop	Hook & Loop	Hook & Loop	Hook & Loop	Hook & Loop
OTHER:	P-Graded	P-Graded	P-Graded	P-Graded	P-Graded

SIZE	GRIT	MIN./STD PKG.	PART #	PART #	PART #	PART #	PART #
			5 in. x 5 Hole Die #3328	5 in. x 5 Hole Die #3328		5 in. x 5 Hole Die #3328	5 in. x 8 Hole Die #3392
5	60	100/400				66261130236‡	66261130245‡
	80	100/400	66261140517‡	66261131583		66261130235‡	66261130244‡
	100	100/400		66261131582		66261130234‡	66261130243‡
	120	100/400	66261140515‡	66261131581		66261130233‡	66261130242‡
	150	100/400		66261131580		66261130232‡	66261130241‡
	180	100/400		66261131579		66261130231‡	66261130240‡
	220	100/400		66261131578		66261130230‡	66261130239‡
	240	100/400		66261131577			
	320	100/400		66261131575		66261130227‡	66261130238‡
	400	100/400		66261131573		66261130226‡	
600	100/400		66261131571				
			6 in. x 6 Hole Die #3371	6 in. x 6 Hole Die #3371	6 in. x 6 Hole Die #3371	6 in. x 6 Hole Die #3371	
6	80	100/400	66261140527‡	66261131600	66623334786‡	66261130255‡	
	100	100/400		66261131599	66623334787‡		
	120	100/400		66261131598	66623334788‡	66261130253‡	
	150	100/400		66261131597	66623334789‡		
	180	100/400		66261131596	66623334790‡	66261130251‡	
	220	100/400		66261131595	66623334791‡	66261130250‡	
	280	100/400		66261131593			
	320	100/400	66261149553‡	66261131592	66623334793‡		
	400	100/400		66261131590	66623334794‡		
	600	100/400		66261131588	66623334796‡		
	800	100/400		66261131587	66623334797‡		
1000	100/400		66261131586				
1500	100/400		66261131584				

Packaging Standards: ‡ A975 Vacuum, A296 Vacuum, A290 Vacuum = 50/200

Refer to the end of this section for back-up pads and accessories.

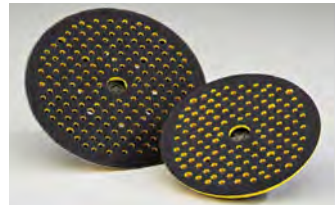
PAPER DISC ACCESSORIES



Multi-Air Foam Interface Pads

- Designed for use with fine grit Multi-Air Cyclonic hook and loop sanding discs to improve both surface finish and cut rate
- Use with Multi-Air hook and loop disc back-up pads
- Align the interface pad with the Multi-Air back up pad then simply attach the disc to the interface pad because the holes do not have to be lined up

DESCRIPTION	STD. PKG.	PART #
Multi-Air Foam Interface Pads with Vacuum Holes		
5" Diameter x 1/2" Thick Pad	8	63642585864
6" Diameter x 1/2" Thick Pad	12	07660719359



Multi-Air Hook & Loop Back-up Pads with Vacuum Holes

- Innovative design optimized for maximum air flow and powerful dust extraction
- Pads are engineered with a durable urethane foam, heat-resistant plastic, a molded-in 5/16"-24 spindle, and hooked face
- Holes in the disc do not have to be matched up with the holes in the pad, so changeover is fast and easy

DESCRIPTION	MAX. RPM	STD. PKG.	PART #
Multi-Air Hook & Loop Back-Up Pads with Vacuum Holes			
5" (125mm) with 5/16"-24 Shank, Medium-Density Urethane Pad	15,000	5	66623376000
6" (150mm) with 5/16"-24 Shank, Medium-Density Urethane Pad	15,000	5	63642506160

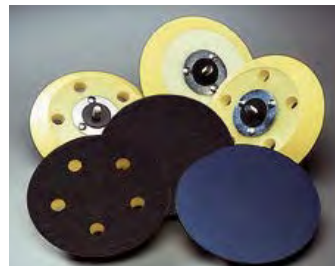


Low-Profile Pads for Dual Action / Random Orbital Sanders

- Soft density low-profile pads utilize 1/2" thick foam for fine finish sanding and offer moderate conformability
- Medium low-profile pads have 1/2" thick urethane foam for intermediate and finish sanding
- Available with PSA (pressure sensitive adhesive) or hook and loop faces; both designs are shock resistant and have a fiberglass backing plate with a riveted 5/16"-24 threaded shank for added strength and increased heat resistance
- Available with standard hole patterns for vacuum-assist sanding

DESCRIPTION	MAX. RPM	STD. PKG.	PART #
Low Profile Pads for DA/Random Orbital Sanders			
3" Hook & Loop Soft Low-Profile	12,000	10	63642506128
3-1/4" Hook & Loop Buffing Pad		5	66261085302
5" PSA Soft Low-Profile	12,000	5	63642506126
5" PSA Medium Low-Profile	15,000	5	63642506131
5" PSA Medium Low-Profile with 5 vacuum holes	15,000	5	63642506132
5" Hook & Loop Soft Low-Profile	12,000	5	63642506129
5" Hook & Loop Medium Low-Profile	15,000	5	63642506135
5" Hook & Loop Medium Low-Profile with 5 vacuum holes	15,000	5*	63642506136
6" PSA Soft Low-Profile	12,000	5	63642506127
6" PSA Medium Low-Profile	15,000	5	63642506133
6" Hook & Loop Soft Low-Profile	12,000	5	63642506130
6" Hook & Loop Medium Low-Profile	15,000	5	63642506137
6" Hook & Loop Medium Low-Profile with 6 vacuum holes	15,000	5	63642506138
8" Hook & Loop Medium Low-Profile with 8 vacuum holes, 5 screw	1,500	5	63642543712
8" Hook & Loop Medium Low-Profile with 8 vacuum holes, 6 screw	1,500	5	63642543714

Packed in individual clamshell



Tapered Pads for Dual Action / Random Orbital Sanders

- Designed with medium density polyurethane foam and a tapered edge for conformability, these pads are firm enough for flat surfaces, yet soft enough for severe curves and contours
- Available with either PSA (vinyl, pressure sensitive adhesive) or hook and loop faces in vacuum or non-vacuum
- The 5" and 6" pads are shock resistant and have a fiberglass backing plate with a riveted 5/16"-24 threaded shank for use on random orbital or dual action sanders
- The 8" pads have a 5/8"-11 threaded female hub

DESCRIPTION	MAX. RPM	STD. PKG.	PART #
Tapered Pads for DA/Random Orbital Sanders			
5" PSA Medium Tapered	15,000	5	63642506139
5" PSA Medium Tapered with 5 vacuum holes	15,000	5	63642506140
5" Hook & Loop Medium Tapered	15,000	5	63642506143
5" Hook & Loop Medium Tapered with 5 vacuum holes	15,000	5	63642506144
6" PSA Medium Tapered	15,000	5	63642506141
6" PSA Medium Tapered with 6 vacuum holes	15,000	5	63642506142
6" Hook & Loop Medium Tapered	15,000	5	63642506145
6" Hook & Loop Medium Tapered with 6 vacuum holes	15,000	5	63642506146
8" PSA Medium Tapered	6,000	5	63642543112
8" Hook & Loop Medium Tapered	3,200	5	63642543704

Packed in individual clamshell

PAPER DISC ACCESSORIES



Hook & Loop Foam Interface Pads

- Designed for use with our fine grit hook and loop sanding discs
- Improve both surface finish and cut rate
- Use with hook and loop back-up pads

DESCRIPTION	STD. PKG.	PART #
Foam Hook & Loop Interface Pads		
3" Diameter, 1/2" Thick Interface	10	63642505457
6" Diameter, 1/2" Thick Interface	5	63642542089
5" Diameter, 3/4" Thick Interface	2	63642502161
6" Diameter, 3/4" Thick Interface	2	63642502162



Half Moon Hand Pad

- The unique half moon pad takes a standard 5" hook and loop disc folded in half, which adheres to the hooks on the pad face
- The straight edge of the pad allows the operator to sand corners, contours, narrow crevices and minute imperfections without over-sanding

DESCRIPTION	STD. PKG.	PART #
Half Moon Hand Pad		
5" Hook & Loop	10	63642502768



Polishing Adapter Pad

- Converts your standard hook and loop pad into a soft polishing pad
- The foam adapter is 3/8" thick and is excellent for fine grits where minimal removal is required
- It is ideal for either flat or contour surfaces

DESCRIPTION	MAX. RPM	STD. PKG.	PART #
Polishing Adapter Pad			
5" Hook & Loop Adapter Pad	3,786	10	63642503121



Ergonomic Hand Sanders



- The ergonomic palm sander is uniquely designed to be user-friendly, with finger indentations for the operator
- It quickly converts standard 5" and 6" hook and loop discs into hand sanders for finishing flat surfaces

DESCRIPTION	STD. PKG.	PART #
Ergonomic Hand Sander		
5" Hook & Loop	5	63642503147
6" Hook & Loop	5	63642503726



Disc Hand Pads



- Hand pads eliminate finger sanding
- The ultra-thin 3/16" thick pad is composed of a single layer of neoprene foam and is designed for maximum flexibility – producing excellent finishes
- The 1" thick pad is composed of two layers, neoprene and polyester foam, for excellent conformability and softness, resulting in fine finishes
- Each pad has an elastic hand strap to hold it firmly in place.
- Available with either PSA (vinyl, pressure sensitive adhesive) faces or hook and loop face

DESCRIPTION	STD. PKG.	PART #
Disc Hand Pads		
5" x 3/16" Thick Soft Foam PSA	10	63642503111
5" x 1" Thick Soft Foam PSA	10	63642502842
5" x 1" Thick Soft Foam Hook & Loop	10	63642503117



Panel and Adhesive Cleaner

- Removes adhesives, tar, grease, wax, body sealers, undercoating sprays, and silicone from most surfaces
- Aggressive cleaner is safe to use on most paint applications
- Packaged with squirt dispenser
- Use as directed

DESCRIPTION	STD. PKG.	PART #
Panel and Adhesive Cleaner		
Quart Can	12	07660782780

FILM & FOAM FINISHING DISCS



For use on random orbital and rotary sanders. The industry's highest performing film and foam finishing discs are engineered for composite, automotive, and other fine finishing applications. Norton microfinishing film discs produce superior finishes dry without sacrificing cut rate while Norton foam finishing discs are used moist to produce a semi-polished surface to reduce buffing time.

- Applications:** Film discs: final dry finishing of primed and painted surfaces, varnishes, composites, and gel coats before buffing
Foam finishing discs: final moist finishing of clear coat, varnishes, composites, and gel coats before buffing
- Compounds and buffing pads:** removes swirl marks and sand scratches
- Size Range:** 3", 5" and 6"
- Grit Range:** Film Discs: P80-P1500
Foam Discs: P1500, P2000, P3000

Machine Used:



NORTON PURE ICE Q175 A/O FINISHING FILM

BEST CHOICE FOR FINAL DRY FINISHING OF PRIMED AND PAINTED SURFACES, VARNISHES, COMPOSITES, AND GEL COATS



FEATURES

- White aluminum oxide grain and patented resin system
- 3 mil polyester backing
- Hook and loop attachment system
- Color-coded backprint by grit size

BENEFITS

- Better life, cut rate, and finish
- Better flexibility and flatness of discs
- Quick, easy mounting and removal
- Easy grit identification

NORTON Q275 NO-FIL A/O FINISHING FILM

GOOD CHOICE FOR DRY SANDING APPLICATIONS, ESPECIALLY UNEVEN, HARD-TO-SAND SURFACES



FEATURES & BENEFITS

- Sharp, P-graded, heat-treated premium aluminum oxide grain ensures faster yet cooler cut for a longer life
- 3-mil polyester film backing delivers unmatched durability and tear strength with exceptional flatness for a flawless surface finish and reduced leveling and rework
- Water-based stearate (No-Fil) coating provides maximum load resistance when sanding dry for extended life without clogging
- Hook and loop attachment system allows quick and easy mounting and clean removal

NORTON ICE Q255 A/O FINISHING FOAM

BEST CHOICE FOR MOIST FINISHING OF CLEAR COATS, VARNISHES, COMPOSITES, AND GEL COATS



FEATURES

- Integrated foam backing
- Open mesh design
- Produces a semi-polished finish
- Hook and loop attachment system
- Color coded abrasive face by grit size

BENEFITS

- Eliminate pigtails and costly re-work
- Conformable to contours
- Equal pressure distribution for quicker sanding
- Uniform scratch pattern
- Quick and easy to buff out
- Quick, easy mounting and removal
- Easy grit identification

FILM & FOAM FINISHING DISCS



TIER:	BEST	GOOD
BRAND:	Norton	Norton
TRADENAME:	PURE ICE Q175	Q275 NO-FIL
ABRASIVE:	Aluminum Oxide	Aluminum Oxide
BACKING WEIGHT:	3 mil Polyester Film	3 mil Polyester Film
OTHER:	P-Graded	P-Graded

TIER:	BEST
BRAND:	Norton
TRADENAME:	ICE Q255
ABRASIVE:	Aluminum Oxide
BACKING WEIGHT:	Foam
OTHER:	P-Graded

SIZE	GRIT	MIN./STD. PKG.	COLOR	PART #	PART #	MIN./STD. PKG.	PART #	PART #	
3	P800	50/200	Black	77696088701					
	P1000	50/200	Red	77696088702					
	P1200	50/200	Green	77696088703					
	P1500	50/200	Blue	77696088704		6/24	Blue	63642506022	
	P3000	50/200				6/24	Green	63642506020	
5	P80	50/200			66261101614				
	P120	50/200			66261101613				
	P150	50/200			66261101612				
	P180	50/200			66261101610				
	P220	50/200			66261101609				
	P240	50/200			66261101608				
	P320	50/200			66261101607				
	P400	50/200			66261101606				
	P600	50/200			66261101604				
	P800	50/200			66261101603				
	P1000	50/200			66261101602				
	P1200	50/200			66261101601				
	P1500	50/200			66261101600				
	6	P80	50/200			66261101628			
		P120	50/200			66261101627			
P150		50/200			66261101626				
P180		50/200			66261101625				
P220		50/200			66261101624				
P320		50/200			66261101622				
P800		50/200	Black	77696088713	66261101618				
P1000		50/200	Red	77696088714	66261101617				
P1200		50/200	Green	77696088715	66261101616				
P1500		50/200	Blue	77696088716	66261101615	15/60	Blue	63642506015	
P2000		50/200				15/60	Magenta	63642506014	
P3000		50/200				15/60	Green	63642506013	

Refer to the following page for back-up pads and accessories.





Norton Liquid Ice Extra-Cut Compound

- Water soluble; easy to use and easy to clean up
- Engineered to be used with a selection of 3 pads, depending on the finish required.

DESCRIPTION	STD. PKG.	STD. CASE	PART #
Quart – Norton Liquid Ice Extra-Cut Compound	1	4	63642597116



Norton Liquid Ice Clean-up/Detailer Spray

- The spray detailer easily cleans up excess buffing residue and produces paint protection
- Spray it on and wipe off with a Norton Microfiber cloth ("Non-Abrasive Products" section)

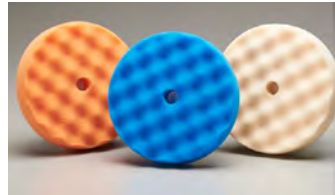
DESCRIPTION	STD. PKG.	STD. CASE	PART #
32 oz. Spray Bottle Clean-up Detailer	1	4	63642542082



Norton Liquid Ice Ultra-Fine Machine Glaze

- Use on its own for fine scratch removal or as Step 3 in place of Norton Liquid Ice Extra-Cut Compound to eliminate swirl marks and produce a high gloss finish
- Ideal for dark-colored vehicles

DESCRIPTION	STD. PKG.	STD. CASE	PART #
Quart – Norton Liquid Ice Ultra-Fine Machine Glaze	1	4	63642506092



8" Hook & Loop Buffing/Polishing Waffle Pads

- These pads can be used with Norton Liquid Ice Extra-Cut Compound.

DESCRIPTION	STD. PKG.	STD. CASE	PART #
8" Orange Waffle Foam Pad - Step 1	1	6	63642506379
8" Blue Waffle Foam Pad - Step 2	1	6	63642506380
8" White Waffle Foam Pad - Step 3	1	6	63642506381



8" and 9" Hook & Loop Buffing/Polishing Pads

- These pads can be used with Norton Liquid Ice Extra-Cut Compound following the step numbers

DESCRIPTION	STD. PKG.	STD. CASE	PART #
8" Super Cut Wool Pad - Step 1	1	6	63642542077
9" Blue Cutting Foam Pad - Step 2	1	6	63642542078
9" White Finishing Foam Pad - Step 3	1	6	63642542079



3" Hook & Loop Buffing/Polishing Pads

- For small spot repair.

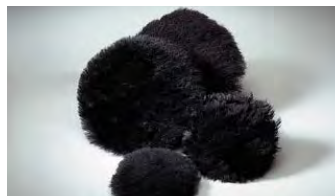
DESCRIPTION	STD. PKG.	STD. CASE	PART #
3" Super Cut Wool Pad - Step 1	10	40	63642543832
3" Blue Cutting Foam Pad - Step 2	10	40	63642505459
3" White Finishing Foam Pad - Step 3	10	40	63642505460



Low-Profile Back-up Pads for Dual Action / Random Orbital Sanders

- Soft density low-profile pads utilize 1/2" thick foam for fine finish
- Shock-resistant and have a fiberglass backing plate with a riveted 5/16"-24 threaded shank for added strength/increased heat resistance.

DESCRIPTION	MAX. RPM	STD. CASE	PART #
3" Hook & Loop Soft Low-Profile	12,000	10	63642506128
6" Hook & Loop Soft Low-Profile	12,000	5	63642506130



Black Lambswool Hook & Loop Polishing Pads

- Distributing and applying material evenly and consistently, these dense, durable, lambswool pads are designed to repair clearcoat finishes.

DESCRIPTION	STD. CASE	PART #
3" Pad with Loop – 3/4" nap	40	63642503670
4" Pad with Loop – 3/4" nap	250	63642503671



Hook & Loop Back-up Pads for 8" and 9" Buffing Pads

- Black plastic back-up plate with hook and loop face. Moulded in 5/8"-11 threaded female hub.

DESCRIPTION	STD. PKG.	STD. CASE	PART #
8" and 9" Hook & Loop Back-up Pad	1	3	63642542080

CLOTH PSA DISCS AND ACCESSORIES



Norton PSA (pressure sensitive adhesive) individual cloth discs and disc rolls are used on four different types of machines and the application changes depending on which machine they are used on.

Applications: Pneumatic and Electric Dual-Action (DA) and Electric Random Orbital Sanders – for use on contours or flat surfaces for light- to medium-pressure grinding, blending, leveling, and finishing applications

Stationary Disc Sanders – used in woodworking and metalworking for stock removal, sanding/grinding flat surfaces, dimensioning and finishing

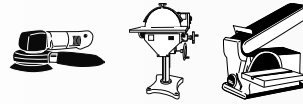
Size Range: 5" – 24" diameter

Grit Range: 24 – 180

Abrasive Grain: Ceramic Alumina, Zirconia Alumina, Aluminum Oxide

Back-up Pads: Rubber, with hardness variations for different applications, for portable machines. Steel for stationary disc sanders

Machine Used:



NORTON BLAZE R980P CERAMIC ALUMINA

BEST CHOICE FOR ALL HARD-TO-GRIND HIGH ALLOY STEELS

FEATURES

- Norton SG ceramic alumina abrasive
- Durable resin bond
- Self-lubricating supersize treatment
- Strong Y-weight polyester backing

BENEFITS

- Coolest cut; significantly faster cut rate
- Better grain adhesion, edge-fray resistance
- Cool cut on harder-to-grind materials
- Long life and consistent cut



NORTON BLUEFIRE R821P ZIRCONIA ALUMINA

BETTER CHOICE FOR GRINDING AND DEBURRING STAINLESS STEEL

FEATURES

- Self-sharpening, zirconia alumina abrasive
- Heavy Y-weight backing

BENEFITS

- Cooler cut, extended life over aluminum oxide discs
- Durable; reduced edge wear



NORTON METALITE R228 ALUMINUM OXIDE

GOOD CHOICE FOR GENERAL PURPOSE METALWORKING

FEATURES

- Premium aluminum oxide abrasive
- Heavy X-weight backing

BENEFITS

- Long life
- Durable
- Ideal for aggressive stock removal applications
- Resistant to heat

CLOTH PSA DISCS AND ACCESSORIES

Cloth PSA Discs for Dual-Action and Random Orbital Sanders



TIER:	BEST	GOOD
BRAND:	Norton	Norton
TRADENAME:	BLAZE R980P	METALITE R228
ABRASIVE:	Ceramic Alumina	Aluminum Oxide
ATTACHMENT:	PSA Discs	PSA Discs
OTHER:	Supersize	

GOOD
Norton
METALITE R228
Aluminum Oxide
PSA Discs Roll

SIZE (D)	GRIT	MIN./STD. PKG.	PART #	PART #	ROLLS/PKG / DISCS/ROLL	PART #
5	36	50/250	66254461506*	66261136589		
	40	50/250	66254461507	66261136588		
	50	50/250	66254461508	66261136587	4/100	66261133252
	60	50/250	66254461509	66261136586	4/100	66261133253
	80	50/250	66254461510	66261136585	4/100	66261133254
	100	50/250		66261136584		
	120	50/250	66254461512	66261136583		
	150	50/250		66261136582		
	180	50/250		66261136581		
6	60	50/250		66261136596		
	80	50/250		66261136595		
	100	50/250		66261136594		
	120	50/250		66261136593		
8	180	50/250		66261136592		
	36	50/250		66261136350		
	40	50/250		66261136351		
	50	50/250		66261136352		
	60	50/250		66261136576		
	80	50/250		66261136354		
	120	50/250		66261136355		

*Min./Std. Pkg.: Blaze R980 5" 36 grit discs = 50/200

Back-up Pads for Cloth PSA Discs

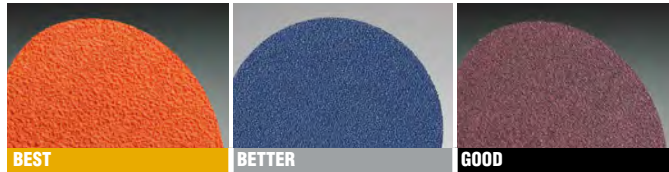
DESCRIPTION	MAX. RPM	STD. PKG.	PART #
Back-up Pads for Cloth PSA Discs			
5" Diameter – Low Profile – Soft	12,000	5	63642506126
5" Diameter – Low Profile – Medium	12,000	5	63642506131
5" Diameter – Tapered – Medium	12,000	5	63642506139
6" Diameter – Low Profile – Soft	10,000	5	63642506127
6" Diameter – Low Profile – Med	10,000	5	63642506133
6" Diameter – Tapered – Medium	10,000	5	63642506141
8" Diameter – Tapered – Medium	6,000	5	63642543112



CLOTH PSA DISCS AND ACCESSORIES

Large Diameter Cloth PSA Discs

Used on stationary disc machines for dimensioning and finishing metal workpieces and woodworking. Pressure sensitive adhesive offers fast, convenient mounting. Made without center holes for full-face usage.




TIER:	BEST	BETTER	GOOD
BRAND:	Norton	Norton	Norton
TRADENAME:	BLAZE R980P	BLUEFIRE R821P	METALITE R228
ABRASIVE:	Ceramic Alumina	Zirconia Alumina	Aluminum Oxide
ATTACHMENT:	PSA	PSA	PSA
OTHER:	Supersize		

SIZE (D)	GRIT	MIN./STD. PKG.	PART #	PART #	PART #
10	36	25/50			66261136606
	40	25/50		66261138314	66261136604
	50	25/50			66261136607
	60	25/50		66261138316	66261136602
	80	25/50		66261138317	66261136601
	100	25/50			66261136600
12	24	25/50		66261138318	
	36	25/50	66254416171	66261138319	66261136635
	40	25/50	66254416172	66261138320	66261136630
	50	25/50	66254416173	66261138321	66261136625
	60	25/50	66254416174	66261138322	66261136620
	80	25/50	66254416175	66261138323	66261136615
	100	25/50			66261136614
	120	25/50	66254416176		66261136613
15	36	25/50			66261136666
	40	25/50			66261136665
	60	25/50			66261136663
	80	25/50			66261136662
16	36	25/50			66261136700
	40	25/50			66261136685
	50	25/50			66261136684
	60	25/50		66261138334	66261136683
	80	25/50			66261136701
18	36	25/50			66261136720
	60	25/50			66261136696
	80	25/50			66261136723
20	36	25/50	66254416165	66261138343	66261136710
	40	25/50		66261138344	66261136709
	50	25/50	66254416167		66261136711
	60	25/50	66254416168	66261138346	66261136712
	80	25/50	66254416169		66261136706
	120	25/50	66254416170		
24	36	10/10			66261136718
	40	10/10			66261136717
	50	10/10			66261136725
	60	10/10			66261136726
	80	10/10			66261136727



Tool-free, twist-on and -off fastening systems make fast work of disc changes to maximize productivity by minimizing downtime.

- Applications:** Fiber and NorKut trimmable hard plastic discs: welding, grinding and blending; heavy metal removal; light deburring and finishing
Cloth discs: light- to medium-pressure grinding; blending, leveling and finishing applications; for use on contours or flat surfaces
- Size Range:** 9/16" – 4" diameter
- Grit Range:** 24 – 320
- Abrasive Grain:** Ceramic Alumina, Zirconia Alumina, Aluminum Oxide, Silicon Carbide
- Backing:** Fiber or cloth
- Cloth Flex:** 3-ply (more aggressive), 2-ply (standard), or 1-ply (more flexible) lamination
- Attachment:** Type TS (II), Type TR (III), and Type TP (I)
- Back-up Pads:** Rubber with hardness variations for different applications
- Machine Used:** 

COATED ABRASIVE QUICK-CHANGE DISC AVAILABILITY



Fiber

- The most heavy-duty discs with resin over resin construction on heavy-duty vulcanized fiber backing
- Premium grain for applications from heavy stock removal to surface blending



NorKut

- Unique polymer backing resists cracking and breakage and can be cut down up to the 1" core
- Use the cores to grind "pinch" welds and other hard-to-reach areas



Cloth 3-Ply

- These heavy-duty, 3-ply polyester laminate construction discs are the most aggressive and durable cloth discs on the market



Cloth 2-Ply

- Our standard 2-ply laminate construction creates an aggressive and durable cloth disc for flat surfaces



Cloth 1-Ply

- The flexible, 1-ply cotton laminate construction offers added conformability on contoured surfaces or any application where added flexibility is needed

QUICK-CHANGE ATTACHMENT SYSTEMS AND CROSS REFERENCE GUIDE

Each system enables quick, safe disc changes, reducing downtime and operating expenses.

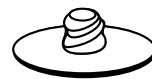
Type TS (Type II)

- Features a turn-on/turn-off style fastener
- Fastener is made of metal
- Equivalent to Standard Abrasives SocAtt® locking system



Type TR (Type III)

- Features a roll-on/roll-off style fastener
- Fastener is made of plastic
- Equivalent to 3M™ Roloc™ fastening system



Type TP (Type I)

- Features a snap-on/snap-off style fastener
- Fastener is made of nylon

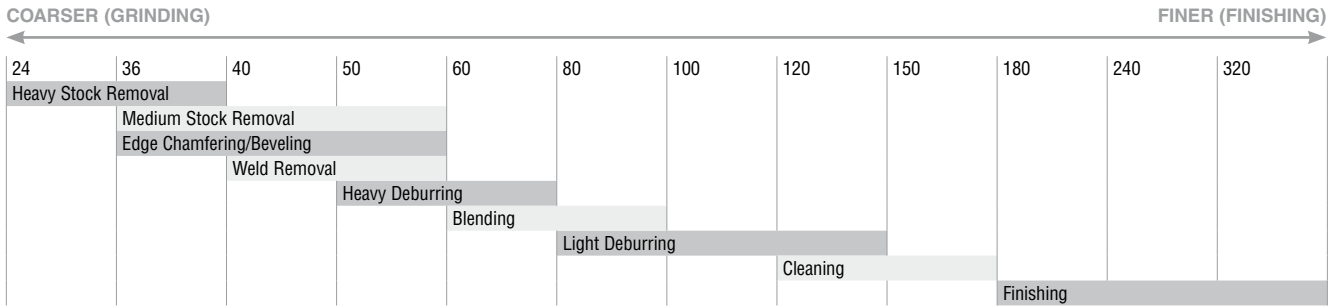


NORTON	TS	TR	TP
MERIT	Type II	Type III	Type I
3M	Roloc TS/TSM	Roloc TR	Roloc TP
Standard	TS (SocAtt)	TR (Lockit)	TP (ClickOn)
Superior	Type S	Type R	–
Arc	Type S	Type R	Type P
Pferd	Type CD	Type CDR	–
Sait	SAIT-LOK	SAIT-LOK-R	–
Camel	Turn On	Roll On	–
Klingspor	QMC	QRC	–
Garryson	Type S	Type R	–

MATERIAL/APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

	BEST Highest Productivity; Lowest Total Cost	BETTER Excellent Blend of Performance & Price	GOOD Consistent Performance; Low Initial Price
Stainless Steel / Titanium / Super Alloys	Norton Blaze R980P	Norton BlueFire R884P	Norton R766
Mild Carbon Steel / Welds	Norton Red Heat R983	Norton BlueFire R884P	Norton R766
Ferrous Metals / Cast Iron	Norton Red Heat R983	Norton BlueFire R884P	Norton R766
Brass / Bronze / Aluminum	–	Norton BlueFire R884P	Norton R766
Paint / Glue / Adhesive	–	–	Norton R766
Concrete / Stone / Fiberglass	–	–	Merit Silicon Carbide

APPLICATION/GRIT RECOMMENDATION GUIDE



CROSS REFERENCE GUIDE

	TOTAL PERFORMANCE				INITIAL PRICE	
	BEST		BETTER	GOOD		
Abrasive	Ceramic Alumina	Ceramic Alumina	Zirconia Alumina	Aluminum Oxide	Aluminum Oxide	Silicon Carbide
	Full Ratio	Full Ratio				
Backing	Fiber	Cloth	Cloth	Cloth	Cloth	Cloth
NORTON	Blaze F980	Blaze R980P	BlueFire R884P	R766	–	–
MERIT	–	–	–	–	Aluminum Oxide	Silicon Carbide
3M	983C, 988C	963G, 977F, 785C, 777F	–	–	361F	461F
Standard	–	Ceramic Pro, Ceramic	Zirconia	A/O Extra, A/O Pro	A/O	Silicon Carbide
Superior	–	Ceramic G.A.	Premium Zirc	A/O with Grinding Aid	Premium A/O, Rigid Kut A/O	–
Arc	–	–	Zirconia/ Y Standard	A/O/X Plus Coolant	A/O/Y Premium	–
Pferd	Ceramic Oxide CO	Ceramic	ZA Z	Aluminum Oxide A-Plus, Aluminum Oxide A-INOX-FORTE	Aluminum Oxide A, A/O A-FORTE	Silicon Carbide SiC
Sait	–	–	Z	3A	2A-H, 2A	–
Camel	–	–	Zirconia AO	–	Aluminum Oxide	–
Klingspor	–	Ceramic	Alumina Zirconia	–	Aluminum Oxide	–
Garryson	–	Ceramic	–	–	Aluminum Oxide	–

Power at Your Finger Tips – The World in the Palm of Your Hand

Put the world right in the palm of your hand with our 2" Norton Mini Angle Sander. Small, compact enough to get into those hard-to-reach areas, and powerful enough to finish the job fast and efficiently.



Features and Benefits

- A double-bearing spindle generates superb concentricity, reducing vibrations allowing for longer use and finer finishes
- Finesse your projects by having the ultimate control in both precision and power with the speed regulator
- Get better tool handling along with reducing additional fatigue with the ergonomic and streamlined non-slip grip

DESCRIPTION	STD. PKG.	PART #
Norton Mini Angle Sander		
Norton 2" Mini Angle Sander	1	66261150076
Norton 2" Mini Angle Sander Kit – kit includes:	1	66261150077
• 1 Norton mini angle sander		
• 25 Norton Blaze 2" 36 grit 3-ply heavy-duty TR (Type III) cloth quick-change discs		
• 50 Norton Vortex Rapid Prep 2" Medium grit TR (Type III) non-woven quick-change discs		
• 1 Norton medium density back-up pad		

Ceramic Alumina Quick-Change Fiber Discs

NORTON BLAZE F980 CERAMIC ALUMINA FIBER

BEST CHOICE FOR TOUGH APPLICATIONS AND STAINLESS STEEL

FEATURES & BENEFITS

- Norton SG ceramic grain with self-lubricating, supersize treatment provides coolest cut with significantly faster cut rates
- Heaviest fiber backing, greater durability, longest life, and edge-fray resistance



TIER: **BEST**
 BRAND: Norton
 TRADENAME: **BLAZE F980**
 ABRASIVE: Ceramic Alumina
 BACKING: Fiber – Heavy Duty
 OTHER: Supersize
 ATTACHMENT: TR (Type III)



SIZE (D)	GRIT	STD. PKG.	PART #
2	24	25	77696090139
	36	25	66261058704
	50	25	66261058705
	60	25	66261058706
	80	25	66261058707
3	24	25	77696090140
	36	25	66261058708
	50	25	66261058709
	60	25	66261058711
	80	25	66261058712

Quick-Change back-up pads shown at the end of this section.



Ceramic Alumina Quick-Change Cloth Discs

NORTON BLAZE R980P CERAMIC ALUMINA CLOTH

BEST CHOICE FOR TOUGH APPLICATIONS, TITANIUM, SUPER ALLOYS, AND STAINLESS STEEL (3-PLY) OR CONTOUR SURFACES (2-PLY)

FEATURES AND BENEFITS

- Next-generation, Norton SG ceramic alumina grain with self-lubricating, supersize treatment provides coolest cut and significantly faster cut rates
- 3-ply heavy-duty laminate discs (Y-weight polyester yellow backing) are more aggressive; for greatest durability, longest life, and edge-fray resistance on tough applications and stainless steel
- 2-ply laminate disc (Y-weight polyester red backing) construction is the standard for an aggressive and durable cloth disc for flat surfaces



NORTON RED HEAT R983 CERAMIC ALUMINA CLOTH

BEST/HIGH PRODUCTIVITY FOR MILD CARBON STEEL, CAST IRON AND FERROUS METALS

FEATURES & BENEFITS

- Our exclusive premium ceramic alumina abrasive blend cuts faster and outlasts aluminum oxide and zirconia abrasives in most applications.
- Safer, more environmentally-stable black abrasive does not contain performance-inhibiting dies or formaldehydes, eliminating color-transfer issues
- This 1-ply laminate disc (Y-weight polyester red backing) sets the standard for flexibility and conformability
- Advanced self-lubricating grain treatment reduces heat on hard-to-grind materials
- Enhanced grain/bond adhesion requires less pressure for a cooler cut; less operator fatigue



MERIT CERAMIC ALUMINA PLUS CLOTH

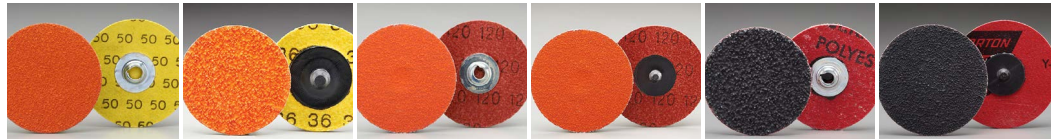
BEST/HIGH PRODUCTIVITY FOR HARD-TO-GRIND ALLOYS

FEATURES & BENEFITS

- Quality ceramic alumina abrasive provides long life and value
- The grinding aid produces longer life and cooler cut
- Heavy, Y-weight polyester backing provides excellent durability and grain adhesion



Ceramic Alumina Quick-Change Cloth Discs (continued)



TIER:	BEST	BEST	BEST	BEST	BEST	BEST
BRAND:	Norton	Norton	Norton	Norton	Norton	Norton
TRADENAME:	BLAZE R980P	BLAZE R980P	BLAZE R980P	BLAZE R980P	RED HEAT R983	RED HEAT R983
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Ceramic Alumina	Ceramic Alumina	Ceramic Alumina	Ceramic Alumina
BACKING:	Polyester 3-Ply Heavy-Duty	Polyester 3-Ply Heavy-Duty	Polyester 2-Ply Standard	Polyester 2-Ply Standard	Polyester 1-Ply Flexible	Polyester 1-Ply Flexible
OTHER:	Supersize	Supersize	Supersize	Supersize	Supersized	Supersized
ATTACHMENT:	TS (Type II)	TR (Type III)	TS (Type II)	TR (Type III)	TS (Type II)	TR (Type III)

SIZE (D)	GRIT	STD. PKG.	PART #	PART #	PART #	PART #	PART #	PART #
1-1/2	36	100	66261162307	66261162308	63642595401	63642595465	66261132706*	66261132724
	50	100	66261162309	66261162310	63642595446	63642595467	66261132707	66261132725
	60	100	66261162311	66261162312	63642595447	63642595468	66261132708	66261132726
	80	100	66261162313	66261162314	63642595450	63642595469	66261132709	66261132727
	120	100	66261043379	66261043380	66261043416	66261043417	66261132710	66261132728
2	36	25	66261162317	66261162318	63642595452	63642595470	66261132712	66261132730
	50	25	66261162319	66261162320	63642595456	63642595472	66261132713	66261132731
	60	25	66261162321	66261162322	63642595458	63642595476	66261132714	66261132732
	80	25	66261162323	66261162324	63642595459	63642595478	66261132715	66261132733
	100	25	66261043382	66261043383	66261043418	66261043419		
3	120	25	66261043384	66261043386	66261043420	66261043421	66261132716	66261132734
	36	25	66261162327	66261162328	63642595460	63642595479	66261132718	66261132736
	50	25	66261162329	66261162330	63642595462	63642595480	66261132719	66261132737
	60	25	66261162331	66261162332	63642595463	63642595481	66261132720	66261132738
	80	25	66261162333	66261162334	63642595464	63642595493	66261132721	66261132739
	100	25	66261043389	66261043390	66261043422	66261043423		
	120	52	66261043391	66261043392	66261043424	66261043425	66261132722	66261132740

Quick-Change back-up pads shown at the end of this section.



Ceramic Alumina Quick-Change Cloth Discs (continued)



TIER:	BEST	BEST	BEST
BRAND:	Merit	Merit	Merit
TRADENAME:	CERAMIC ALUMINA PLUS	CERAMIC ALUMINA PLUS	CERAMIC ALUMINA PLUS
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Ceramic Alumina
BACKING:	Polyester 2-Ply Standard	Polyester 2-Ply Standard	Polyester 2-Ply Standard
OTHER:	Supersized TS (Type II)	Supersize TR (Type III)	Supersized TP (Type I)
ATTACHMENT:			

SIZE (D)	GRIT	STD. PKG.	PART #	PART #	PART #
9/16	36	100	08834163315		08834163000
	40	100	08834163316		08834163003
	50	100	08834163317		
	60	100	08834163318		08834163005
	80	100	08834163319		08834163014
	120	100	08834163320		08834163017
3/4	36	100	08834163321		08834163020
	40	100		08834163393	08834163021
	50	100	08834163324	08834163394	08834163022
	60	100	08834162239	08834163395	08834163023
	80	100	08834163339		08834163024
	120	100	08834163362	08834163397	08834163027
1	36	100	08834163374	08834163398	08834163028
	40	100	08834163375	08834163400	08834163030
	50	100	08834163376	08834163401	
	60	100	08834162240	08834163402	08834163042
	80	100	08834163378	08834163403	08834163043
	120	100	08834163379	08834163404	08834163112
1-1/2	24	100	08834163421	08834163405	08834163113
	36	100			08834163114
	50	100	08834163252		08834163115
	60	100	08834160463	08834163407	08834163116
	80	100	08834163273	08834163408	08834163117
	120	100	08834168653		08834168650
2	24	100	08834163118	08834160449	08834163119
	36	100			08834163120
	50	100	08834163259	08834163411	08834163121
	60	100	08834163551	08834163412	08834163231
	80	100	08834163381	08834165615	08834163219
	100	100			
3	120	100	08834163382	08834168657	08834168651
	24	50	08834163383	08834160458	08834163238
	36	50			08834163245
	50	50	08834163385	08834163414	08834168275
	60	50	08834163386	08834163415	08834163266
	80	50	08834163387	08834168178	08834169701
4	100	50			08834163448
	120	50	08834168655	08834168658	08834168652
	36	50	08834162742	08834163416	08834163280
	40	50	08834163388	08834163417	
	50	50	08834162743	08834163418	
	60	50	08834163389	08834162992	08834163301
	80	50	08834163390	08834163419	
	120	50	08834163391	08834163420	08834163314

Merit Ceramic Plus Stock/Non-Stock Status:
 TS: 2" and 3" are stock part numbers; all other sizes are non-stock.
 TR: 1-1/2", 2", and 3" part numbers are stock; all other sizes are non-stock.
 TP: All sizes are non-stock.
 Please call for lead-times.

Quick-Change back-up pads shown at the end of this section.

Zirconia Alumina Specialty Quick-Change Discs

NORTON NORKUT ZIRCONIA ALUMINA POLYMER

BETTER CHOICE FOR HARD-TO-GRIND AREAS WHERE FLEXIBILITY IS NOT REQUIRED



FEATURES AND BENEFITS

- Zirconia alumina grain is resin bonded to a unique polymer backing which resists cracking and breaking and can be trimmed to the 1" core
- Use the cores to grind "pinch" welds and other hard-to-reach areas
- Used with a quick change mandrel: 7/16"-20 threaded for hand-held pneumatic grinders or 1/4" mandrel for automotive drills

TIER:	BETTER
BRAND:	Norton
TRADENAME:	NORKUT
ABRASIVE:	Zirconia Alumina
BACKING:	Extra HD Polymer
ATTACHMENT:	Threaded Hole

SIZE (D)	GRIT	STD. PKG.	PART #
3	24	20	63642503656
	36	20	63642503657
	50	20	63642503658
7/16-20 Mandrel	-	5	63642503659
1/4" Mandrel	-	5	63642503660

Zirconia Alumina Quick-Change Cloth Discs

NORTON BLUEFIRE R884P ZIRCONIA ALUMINA CLOTH

BETTER CHOICE FOR SOFT METALS, WOOD, STAINLESS STEEL, AND CARBON



FEATURES AND BENEFITS

- Premium, versatile, self-sharpening zirconia alumina plus grain provides aggressive cut and up to 30% longer life than competitive zirconia alumina product
- Strong resin bond improves base adhesion and reduces grain shedding
- Advanced grain coating results in longer life and faster cut rate
- Semi-open coat retards loading on soft metals (aluminum, brass, and bronze) and wood, as well as stainless steel and carbon steel
- Durable, Y-weight, 2-ply polyester backing stands up to demanding applications: high-pressure and hard-to-grind exotic alloys

MERIT ZIRC PLUS CLOTH

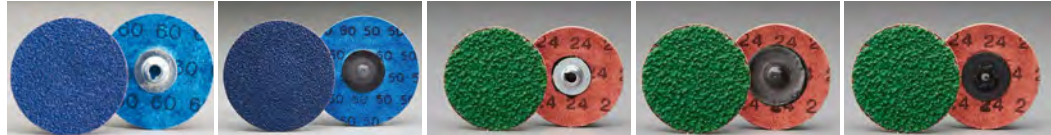
BETTER CHOICE FOR STAINLESS STEEL, TITANIUM AND OTHER EXOTIC ALLOYS



FEATURES AND BENEFITS

- Self-sharpening zirconia alumina plus grain makes this a better choice for demanding grinding applications
- Strong resin bond improves base adhesion and reduces grain shedding
- The grinding aid produces longer life and cooler cut
- Heavy, Y-weight polyest backing provides excellent durability and grain adhesion

Zirconia Alumina Quick-Change Cloth Discs (continued)



TIER:	BETTER	BETTER	BETTER	BETTER	BETTER
BRAND:	Norton	Norton	Merit	Merit	Merit
TRADENAME:	BLUEFIRE R884P	BLUEFIRE R884P	ZIRC PLUS	ZIRC PLUS	ZIRC PLUS
ABRASIVE:	Zirconia Alumina	Zirconia Alumina	Zirconia Alumina	Zirconia Alumina	Zirconia Alumina
BACKING:	Polyester 2-Ply Standard	Polyester 2-Ply Standard	Polyester 2-Ply Standard	Polyester 2-Ply Standard	Polyester 2-Ply Standard
OTHER:			Supersize	Supersize	Supersize
ATTACHMENT:	TS (Type II)	TR (Type III)	TS (Type II)	TR (Type III)	TP (Type I)

SIZE (D)	GRIT	STD. PKG.	PART #	PART #	PART #*	PART #*	PART #*
1	36	100				08834167093	08834167009
	40	100			08834167052	08834167094	08834167010
	50	100	66261138609		08834167053	08834167095	08834167011
	60	100	66261138608			08834167096	08834167012
	80	100	66261138607			08834167097	08834167013
	120	100			08834167057	08834167099	08834167015
1-1/2	36	100	66261138624	66261121041	08834167058		08834167016
	40	100				08834167101	
	50	100	66261138622			08834167102	08834167018
	60	100	66261138621	66261121043	08834167061	08834167103	08834167019
	80	100	66261138620	66261121044	08834167062	08834167104	
	120	100			08834167064	08834167106	
2	24	100	66261138638*	66261138672*			
	36	100	66261138637*	66261138671	08834167065	08834167107	08834167023
	40	100			08834167066	08834167108	
	50	100	66261138635*	66261138670*	08834165583	08834167109	08834167025
	60	100	66261138634*	66261121048*	08834167068	08834167110	08834167026
	80	100	66261138633*	66261121049*	08834167069	08834167111	08834167027
3	120	100			08834167071	08834167113	08834167029
	24	50	66261138665*	66261138675*			
	36	50	66261138664*	66261138674*	08834167072	08834167114	08834167030
	40	50			08834167073		
	50	50	66261138662*	66261138673*	08834167074	08834167116	08834167032
	60	50	66261138661*	66261121053*	08834167075	08834167117	08834167033
4	80	50	66261138660*	66261121054*	08834167076	08834167118	08834167034
	120	50			08834167078	08834167120	08834167036
	36	50	66261138683*		08834167079		
	40	50			08834167080		
	50	50	66261138681*		08834167081		
	60	50	66261137343*		08834167082		08834167040
4	80	50	66261138679*		08834167083		
	120	50			08834167085		08834167043

* Standard Package = 25 discs

* Merit Zirc Plus Stock/Non-Stock Status:

TS: 1" 80 grit, 1-1/2", 2" and 3" are stock part nos.; 4" part nos. are non-stock.

TR: 1" 60, 80 and 120 grit, 1-1/2", 2", and 3" part nos. are stock; 1" 36, 40, and 50 grit part nos. are non-stock.

TP: 2" and 3" part nos. are stock; all other sizes are non-stock.

Please call for lead-times.

Quick-Change back-up pads shown at the end of this section.

Quick-Change Disc Test Kit



Merit Quick-Change Test Kit "D"

- Part # 08834165001
- Includes 150 discs, assorted grits, in 1", 2", and 3" diameters and 3" back-up pads
- Primarily aluminum oxide cloth quick-change discs
- Several zirconia alumina and FlexEdge discs are included

Aluminum Oxide Quick-Change Cloth Discs

NORTON R766 ALUMINUM OXIDE CLOTH

GOOD CHOICE FOR DIFFICULT-TO-GRIND MATERIALS THAT REQUIRE AN ECONOMICAL OPTION



VENDIBLE

FEATURES AND BENEFITS

- Premium aluminum oxide blend for aggressive cut and longer life than competitive aluminum oxide discs
- Durable Y-weight, 2-ply polyester backing and coating for longer life and faster cut rate on moderately-demanding applications
- Vendible packs, ideal for vending machines, small jobs, or carrying to a job site

MERIT ALUMINUM OXIDE CLOTH

GOOD CHOICE WHEN INITIAL PRICE IS THE PRIMARY CONSIDERATION



FEATURES AND BENEFITS

- Versatile aluminum oxide blend for aggressive cut and longer life than competitive aluminum oxide discs
- Durable X-weight (finer grits) or Y-weight (coarser grits) 2-ply polyester backing and coating for longer life and faster cut rate on moderately-demanding applications
- Good choice for difficult-to-grind materials (aluminum, brass, bronze, stainless, carbon steel, and titanium) and applications requiring an economical option



TIER:	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Merit	Merit	Merit
TRADENAME:	R766	R766	R766	ALUMINUM OXIDE	ALUMINUM OXIDE	ALUMINUM OXIDE
ABRASIVE:	Aluminum Oxide Blend	Aluminum Oxide Blend	Aluminum Oxide Blend	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
BACKING:	Polyester	Polyester	Polyester	Polyester	Polyester	Polyester
	2-Ply Standard	2-Ply Standard	2-Ply Standard	2-Ply Standard	2-Ply Standard	2-Ply Standard
ATTACHMENT:	TS (Type II)	TR (Type III)	TP (Type I)	TS (Type II)	TR (Type III)	TP (Type I)

SIZE (D)	GRIT	STD. PKG.	PART #	PART #	PART #	PART #	PART #	PART #
3/4	24	100				69957399601	69957399669	69957399737
	36	100			66623318933	69957399602	69957399670	69957399738
	40	100				69957399603	69957399671	69957399739
	50	100			66623318935	69957399604	69957399672	69957399740
	60	100				69957399605	69957399673	69957399741
	80	100			66623318937	69957399606	69957399674	69957399742
	100	100				69957399607	69957399675	69957399743
	120	100				69957399608	69957399676	69957399744
	150	100				69957399609	69957399677	69957399745
	180	100				69957399610	69957399678	69957399746
	240	100				69957399611	69957399679	69957399747
1	320	100				69957399612	69957399680	69957399748
	24	100				69957399613	69957399681	69957399749
	36	100	66623318957		66623318950	69957399614	69957399682	69957399750
	40	100			66623318951	69957399615	69957399683	69957399751
	50	100	66623318959		66623318952	69957399616	69957399684	69957399752
	60	100	66623318960		66623318953	69957399617	69957399685	69957399753
	80	100	66623318961		66623318956	69957399618	69957399686	69957399754
	100	100	66261132500	66261132517		69957399619	69957399687	69957399755
	120	100	66261132501	66261132518		69957399620	69957399688	69957399756
	150	100				69957399621	69957399689	69957399757
	180	100				69957399622	69957399690	69957399758
240	100				69957399623	69957399691	69957399759	
320	100				69957399624	69957399692	69957399760	

* Merit Aluminum Oxide Stock/Non-Stock status: All Merit Aluminum Oxide part nos. are stock products.
Continued

Aluminum Oxide Quick-Change Cloth Discs (continued)



TIER:	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Merit	Merit	Merit
TRADENAME:	R766	R766	R766	ALUMINUM OXIDE	ALUMINUM OXIDE	ALUMINUM OXIDE
ABRASIVE:	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
BACKING:	Polyester	Polyester	Polyester	Polyester	Polyester	Polyester
ATTACHMENT:	2-Ply Standard	2-Ply Standard	2-Ply Standard	2-Ply Standard	2-Ply Standard	2-Ply Standard
	TS (Type II)	TR (Type III)	TP (Type I)	TS (Type II)	TR (Type III)	TP (Type I)

SIZE (D)	GRIT	STD. PKG.	PART #	PART #	PART #	PART #	PART #	PART #	
1-1/2	24	100				69957399625	69957399693	69957399761	
	36	100	66623318972	66623318977	66623318967	69957399626	69957399694	69957399762	
	40	100	66623318973	66623318978	66623318968	69957399627	69957399695	69957399763	
	50	100	66623318974	66623318979	66623318969	69957399628	69957399696	69957399764	
	60	100	66623318975	66623318980	66623318970	69957399629	69957399697	69957399765	
	80	100	66623318976	66623318981	66623318971	69957399630	69957399698	69957399766	
	100	100	66261132502			69957399631	69957399699	69957399767	
	120	100	66261132503			69957399632	69957399700	69957399768	
	150	100				69957399633	69957399701	69957399769	
	180	100	66261132504			69957399634	69957399702	69957399770	
	240	100				69957399635	69957399703	69957399771	
	320	100	66261132505			69957399636	69957399704	69957399772	
	2	24	100	66623319011	66623319013	66623319010	69957399637	69957399705	69957399773
		36	100	66623318999	66623319005	66623318993	69957399638	69957399706	69957399774
40		100	66623319000	66623319006	66623318994	69957399639	69957399707	69957399775	
50		100	66623319001	66623319007	66623318995	69957399640	69957399708	69957399776	
60		100	66623319003	66623319008	66623318996	69957399641	69957399709	69957399777	
80		100	66623319004	66623319009	66623318997	69957399642	69957399710	69957399778	
100		100	66261132506	66261132519		69957399643	69957399711	69957399779	
120		100	66261132507	66261132520		69957399644	69957399712	69957399780	
150		100	66261132508	66261132521		69957399645	69957399713	69957399781	
180		100	66261132509	66261132522		69957399646	69957399714	69957399782	
240		100	66261132510	66261132523		69957399647	69957399715	69957399783	
320		100	66261132511			69957399648	69957399716	69957399784	
2		36	40 V	66623341058	66623341059				
		40	40 V	66623341060	66623341061				
	50	40 V	66623341062	66623341063					
	60	40 V	66623341064	66623341065					
	80	40 V	66623341066	66623341067					
	3	24	50	66623319020	66623319026	66623319014	69957399649	69957399717	69957399785
36		50	66623319021	66623319027	66623319015	69957399650	69957399718	69957399786	
40		50	66623319022	66623319028	66623319016	69957399651	69957399719	69957399787	
50		50	66623319023	66623319029	66623319017	69957399652	69957399720	69957399788	
60		50	66623319024	66623319030	66623319018	69957399653	69957399721	69957399789	
80		50	66623319025	66623319031	66623319019	69957399654	69957399722	69957399790	
100		50	66261132512	66261132524		69957399655	69957399723	69957399791	
120		50	66261132513	66261132525		69957399656	69957399724	69957399792	
150		50	66261132514	66261132526		69957399657	69957399725	69957399793	
180		50	66261132515	66261132527		69957399658	69957399726	69957399794	
240		50	66261132516	66261132528		69957399659	69957399727	69957399795	
320		50				69957399660	69957399728	69957399796	
3		36	20 V	66623341072	66623341073				
		40	20 V	66623341074	66623341075				
	50	20 V	66623341076	66623341077					
	60	20 V		66623341079					
	80	20 V	66623341080	66623341081					
4	24	50		66623329430					
	36	50		66623319036		69957399661	69957399729	69957399797	
	40	50				69957399662	69957399730	69957399798	
	50	50				69957399663	69957399731	69957399799	
	60	50			66623319033	69957399664	69957399732	69957399800	
	80	50				69957399665	69957399733	69957399801	
	100	50				69957399666	69957399734	69957399802	
	120	50				69957399667	69957399735	69957399803	
	180	50				69957399668	69957399736	69957399804	

V = Vendible Package. 2" discs: 10 discs per pack / 4 Packs per carton. Order in multiples of 40. For 3" discs: 5 discs per pack / 4 Packs per carton. Order in multiples of 20.

*Merit Aluminum Oxide Stock/Non-Stock status: All Merit Aluminum Oxide part numbers are stock products.

Quick-Change back-up pads shown at the end of this section.

QUICK-CHANGE DISCS & ACCESSORIES

Silicon Carbide Quick-Change Cloth Discs

MERIT SILICON CARBIDE CLOTH

GOOD CHOICE FOR NON-FERROUS MATERIALS

FEATURES AND BENEFITS

- Sharp, silicon carbide abrasive
- X-weight 2-ply backing
- High initial cut and penetration for nonferrous materials



TIER:	GOOD	GOOD	GOOD
BRAND:	Merit	Merit	Merit
ABRASIVE:	Silicon Carbide	Silicon Carbide	Silicon Carbide
BACKING:	Cotton Standard	Cotton Standard	Cotton Standard
ATTACHMENT:	TS (Type II)	TR (Type III)	TP (Type I)

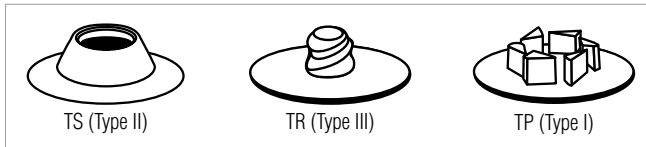


SIZE (D)	GRIT	STD. PKG.	PART #	PART #	PART #
2	40	100	08834165252	08834164275	08834162166
	60	100	08834165254+	08834164163	08834162168
	80	100	08834165255+	08834166155	08834162169
	120	100		08834164837	08834162171
	180	100	08834165259	08834167313	08834162173
3	40	50	08834165267	08834164277	
	60	50		08834164850	
	80	50	08834165270	08834166159	08834162188
	120	50	08834165272	08834166160	08834162190
	180	50	08834165274	08834168177	08834164971

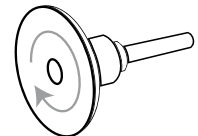
+ Merit Stock/Non-Stock Status: These 2 TS discs are stock items. All other silicon carbide discs are non-stock. Please call for lead-times.



Quick-Change Back-up Pads



- Hard density pads are for aggressive cutting action
- Medium density pads are for all-purpose applications
- Soft density pads are used for contours and fine finishing work



DIAMETER/RPM	DENSITY	STD. PKG.	NORTON TS (TYPE II)	NORTON TR (TYPE III)	STD. PKG.	MERIT TS (TYPE II)	MERIT TR (TYPE III)	MERIT TP (TYPE I)
Quick-Change Back-up Pads								
9/16"					1	66261054014*		66261054013*
40,000 Max. RPM								
3/4"	Medium				1	08834164206	08834164038	08834164001
40,000 Max. RPM								
1"	Medium	10	63642543185		1	08834164651	08834164037	08834164002
40,000 Max. RPM								
1-1/2"	Hard				1	08834164622		08834163996
30,000 Max. RPM	Medium	10	63642543200	66261047580	1	08834164146	08834161174	08834164003
2"	Hard	10	63642543205		1	08834164624	08834164643	08834163997
30,000 Max. RPM	Medium	10	63642543210	66261055103	1	08834164198	08834164922	08834164004
	Soft				1	08834161625	08834164641	08834163949
3"	Hard	10	63642543220	63642504900	1	08834161626	08834164036	08834163998
20,000 Max. RPM	Medium	10	63642543225	66261055105	1	08834164113	08834164949	08834164005
	Soft				1	08834164626	08834164644	08834163948
4"	Medium	10	63642543232	66261047581	1	08834164135	08834164655	08834164006
15,000 Max. RPM								
Vendible Quick-Change Back-up Pads								
2" Vendible	Medium				5	66623341082	66623341083	
30,000 Max. RPM								
3" Vendible	Medium				5		66623341085	
20,000 Max. RPM								

All Quick-Change back-up pads have a 1/4" solid steel shank. * 9/16" Merit back-up pads are non-stock. Please call for lead-times. Vendible back-up pad Std. Pkg. Qty: 1 pad per pack; 5 packs per carton. Order in multiples of 5.

QUICK-CHANGE DISC ACCESSORIES

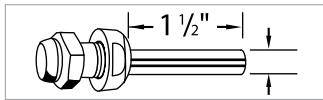
Replacement Medium Density Rubber Pads for Quick-Change TP (Type I) Back-up Pads

DIAMETER	MODEL #	STD. PKG.	PART #
Quick-Change Replacement Rubber Back-up Pads			
3/4"	RR75	1	08834164008*
1"	RR10	1	08834164009*
2"	RR20	1	08834164011
3"	RR30	1	08834164012
4"	RR40	1	08834164013*

When the rubber pad has worn away, but the steel components of your quick-change back-up are still serviceable, order these replacement rubber pads.

* Non-stock. Please call for lead-times.

Replacement Assemblies and Shanks for Quick-Change Back-up Pad

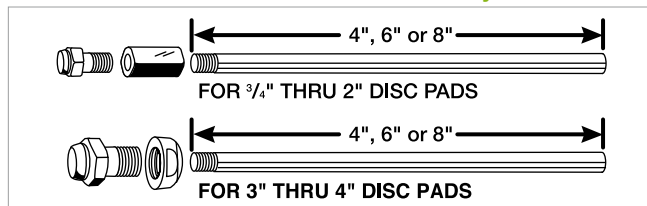


DESCRIPTION	STD. PKG.	PART #
Replacement Mandrels and Nut Assembly		
TP (Type I) Assembly RMN1 for 3/4 - 2	1	08834164015
TP (Type I) Assembly RMN3 for 3 - 4	1	08834164016*
TS (Type II) & TR (Type III) Replacement 1/4" Shank	1	08834164303

Assemblies replace all the steel components of a quick-change back-up pad. This shank replaces the screw-in 1/4" solid steel shank only.

* Non-stock. Please call for lead-times.

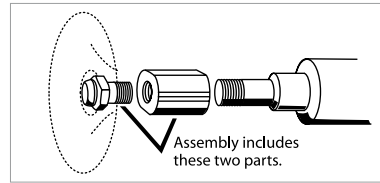
Extension Mandrels and Assembly



DIAMETER	MODEL #	LENGTH	STD. PKG.	PART #
Extension Mandrels and Assembly – TP (Type I)				
3/4 - 2"	EMN-14	4"	1	08834164017
3/4 - 2"	EMN-16	6"	1	08834164018
3/4 - 2"	EMN-18	8"	1	08834164019
3 - 4"	EMN-34	4"	1	08834164020
3 - 4"	EMN-36	6"	1	08834164026
3 - 4"	EMN-38	8"	1	08834164021

All these extension mandrels and assembly are non-stock. Please call for lead-times.

MNA-1 Pad Adapters

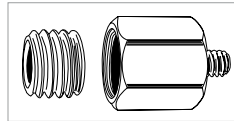


DISC DIAMETER	MODEL NO.	STD. PKG.	PART #
MNA-1 Pad Adapters – TP (Type I)			
3/4 - 2"	MNA 1/4-20 THD.	1	08834161176
3/4 - 2"	MNA 3/8-24	1	08834164055
3/4 - 2"	MNA 5/8-11	1	08834163001
3 - 4"	MNA 1/4-20	1	08834163002
3 - 4"	MNA 3/8-24	1	08834164041
3 - 4"	MNA 5/8-11	1	08834164028

Convert a TP (Type I) back-up pad 1/4" diameter solid shank to a threaded shank

All pad adapters are non-stock. Please call for lead-times.

MNA-23 Pad Adapters

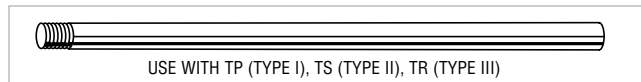


DISC DIAMETER	MODEL #	STD. PKG.	PART #
MNA-23 Pad Adapters – TS (Type II) and TR (Type III)			
3/4 - 4"	MNA-23 3/8-24 and 5/8"-11 THD.	1	08834162764

For use on a right angle grinder: convert TS (Type II) and TR (Type III) back-up pad 1/4" diameter solid shanks to threaded shanks. The larger 5/8-11 adapter (for 4-1/2" discs) is used alone to convert to a 5/8-11 thread. The 3/8-24 insert (for 4" discs) is screwed into the 5/8-11 adapter to create a 3/8-24 thread adapter.

All pad adapters are non-stock. Please call for lead-times.

1/4" Diameter Extension Mandrel



MODEL NO.	LENGTH	STD. PKG.	PART #
1/4" Diameter Extension Mandrel 1/4-20 Thread			
EM-144	4"	1	08834154185
EM-146	6"	1	08834154186
EM-148	8"	1	08834154187



Paper sheets and rolls are engineered for optimum performance when sanding metal, wood, composites and painted surfaces. The sheets are packed in protective packaging to eliminate waste and permit easy, neat storage.

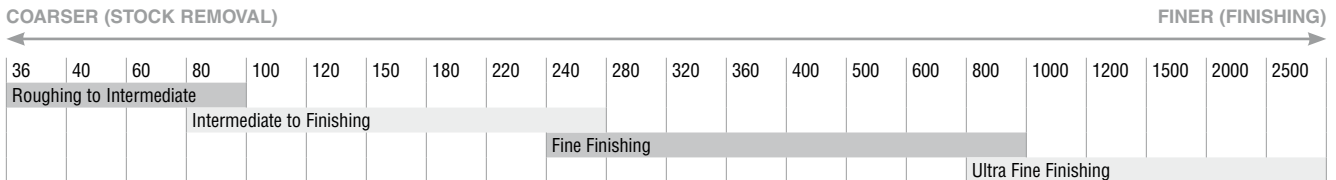
- Categories: All purpose, wood sanding, stearated (non-loading), waterproof, and heavyweight
- Applications: Light-duty metal sanding, primer sanding, defect removal from painted surfaces, filler sanding, sanding and finishing of composites and fiberglass, bare wood sanding, sanding between sealer coats
- Size Range: Full Sheets, Cut Sheets, File Strips and Rolls
- Grit Range: 36 – 2500
- Abrasive Grain: Ceramic Alumina, Zirconia Alumina, Aluminum Oxide, Silicon Carbide, and Garnet
- Paper Weights: Heavyweight – E; Lightweight – A and D
- Machine Used:



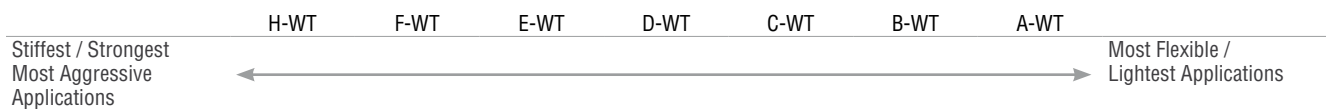
MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

	BEST Highest Productivity – Lowest Total Cost	BETTER Excellent Blend of Performance & Price	GOOD Consistent Performance – Low Initial Price
Unfinished Metal	Original Performance A275	–	Gold Reserve A296, PB273
Primed / Painted Surfaces / Between Coats	Original Performance A275	Durite A475	Gold Reserve A296, PB273
Fiberglass / Composites	Original Performance A275	Durite A475	Gold Reserve A296, PB273
Bare Wood	Original Performance A275	–	Garnet A511, Garnet A513, Garnet A514
Clear Coat Sanding	Black Ice T214, Black Ice T401	–	TufBak T461
Sealer Sanding	Original Performance A275	Durite A475	Gold Reserve A296, PB273
Lacquer Sanding	Black Ice T214, Black Ice T401	Blue-Bak T414	TufBak T461
Wet Sanding	Black Ice T214, Black Ice T401	Blue-Bak T414	TufBak T461
Paint Stripping	Original Performance A275, ProSand A259PS	Durite A475	A290
All Purpose Dry Sanding	Original Performance A275, ProSand A259PS	–	A212, A213, A211

APPLICATION/GRIT RECOMMENDATION GUIDE



RECOMMENDED BACKING WEIGHT



CROSS REFERENCE GUIDE

NORTON	3M	Hermes	Klingspor	Mirka	SIA	VSM
STEARATED (NON-LOADING)						
Dry Ice A975	734U, 735U, 334U	–	–	–	5550 siaprime	–
OP A275 / A259PS (ProSand)	216U, 334U	HC133	PS33	Royal, Royal Micro	1950 siaspeed	–
Durite A475	405N, 414N, 415N/U	PSF-LL, SA168	PL35	Carat Flex, FineFlex	1701 sialac 1748 siarexx fine	CP131A
Gold Reserve A296 / PB273	236U, Red, NX	HCAB-LL	PS33, PL36	Bulldog Gold, GoldFlex	1960 siarexx cut	KP911
WATERPROOF						
Blue Ice T214	213Q	WAFlex28B	PS12	–	1913 siawat	–
Blue Ice T401	401Q	WSFlex16	PS11, PS14	Waterproof (A)	–	CP918A
Blue-Bak T414	413Q	WSFlex16	PS11, PS14	Waterproof (A)	–	CP918A
TufBak T461	438Q, 431Q	WSFlex18C	PS11, PS14	–	1727 siawat	CP918C
ALL PURPOSE/WOOD						
A211	230U, 240N, 346U	–	–	–	–	KP31C
A212	210N	HFB	PL31	–	–	–
A213	230N	HFB	PL31	–	–	KP31B
Garnet A511	110N	–	–	–	1400 sianor	–
Garnet A513	130N	GCAB	–	–	–	–
Garnet A514	140N	GCAB	–	–	–	–
HEAVYWEIGHT PAPER						
BlueFire H875P	750U, 751U, 740I, 745I	–	–	Royal Coarse Cut	–	KP510E, KP709

Aluminum Oxide All-Purpose Sanding and Garnet Wood Sanding 9" x 11" Paper Sheets

9 x 11
Paper Sheets



TIER:	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton	Norton	Norton
TRADENAME:	A211	A213	A212	MULTISAND A213/A212	A513	A511	WOODSAND A513/A511
ABRASIVE:	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Garnet	Garnet	Garnet
BACKING WEIGHT:	D-Weight	C-Weight	A-Weight	D-, C- & A-Weight	D- & C-Weight	A-Weight	D-, C- & A-Weight
OTHER:	P-Graded	P-Graded	P-Graded	P-Graded			

SIZE (W x L)	GRIT	MIN./STD. PKG.	PART #	PART #	PART #	PART #	PART #	PART #
9 x 11	36	25/125	66261100335					
	40	25/125	66261100330					
	50	50/250	66261100325					
	60	50/250		66261100320			66261101560	
	80	50/250		66261100315			66261101555	66261101505
	100	100/500		66261100295		07660700358*	66261101535	66261101500
	120	100/500		66261100290		07660700357*	66261101530	66261101495
	150	100/500		66261100285		07660700356*	66261101525	66261101490
	180	100/500			66261100245	07660700355*		66261101489
	220	100/500			07660700156	07660700354*		66261101488
	240	100/500						
	280	100/500						
	Asst•	100/500					07660700365*	

* Packaging Standards: Job Packs: 25 sheets per pack / 10 packs per standard package for a total of 250 sheets
 • Assorted contains 6 each of 60, 100, 150 grit and 7 each of 220 grit

Stearated (Non-Loading) Aluminum Oxide and Silicon Carbide 9" x 11" Sheets

NORTON OP A275 NO-FIL ALUMINUM OXIDE

THE BEST CHOICE FOR SANDING PAINTED SURFACES, COMPOSITES, PLASTICS OR ANY MATERIAL THAT TENDS TO LOAD



FEATURES	BENEFITS
<ul style="list-style-type: none"> Premium P-graded, heat-treated aluminum oxide abrasive 	<ul style="list-style-type: none"> Superior life, fast cut rate, consistent finish
<ul style="list-style-type: none"> Unique fiber-reinforced, B-weight latex-saturated backing 	<ul style="list-style-type: none"> 50-60% improvement in tear strength Exceptional flexibility, can be folded without cracking
<ul style="list-style-type: none"> Water-based stearate, non-pigmented, No-Fil coating 	<ul style="list-style-type: none"> Provides maximum load resistance and extended life: no color transfer to work
<ul style="list-style-type: none"> Full resin adhesive bond 	<ul style="list-style-type: none"> Provides exceptional resistance to abrasive grain shedding especially when folding to sand into corners; long life

NORTON DURITE A475 NO-FIL SILICON CARBIDE

THE BETTER CHOICE FOR GEL COATS, HARD COMPOSITE SUBSTRATES, ABRASION-RESISTANT COATINGS, AND WOODWORKING APPLICATIONS



FEATURES	BENEFITS
<ul style="list-style-type: none"> P-graded, silicon carbide abrasive 	<ul style="list-style-type: none"> Easy penetration of the hardest surfaces
<ul style="list-style-type: none"> Water-based stearate, non-pigmented, No-Fil coating 	<ul style="list-style-type: none"> Resists loading for longest usable product life, no color transfer to work
<ul style="list-style-type: none"> Fiber-reinforced, latex paper backing 	<ul style="list-style-type: none"> Provides flexibility and resistance to tearing

9 x 11
Paper Sheets



TIER:	BEST	BEST	BETTER	GOOD
BRAND:	Norton	Norton	Norton	Merit
TRADENAME:	ORIGINAL PERFORMANCE A275 NO-FIL	PROSAND A259PS NO-FIL	DURITE A475 NO-FIL	PB273 NO-LOAD
ABRASIVE:	Aluminum Oxide	Aluminum Oxide	Silicon Carbide	Aluminum Oxide
BACKING WEIGHT:	B-Weight	C- & B-Weight	B-Weight	B-Weight
OTHER:	P-Graded	P-Graded	P-Graded	P-Graded

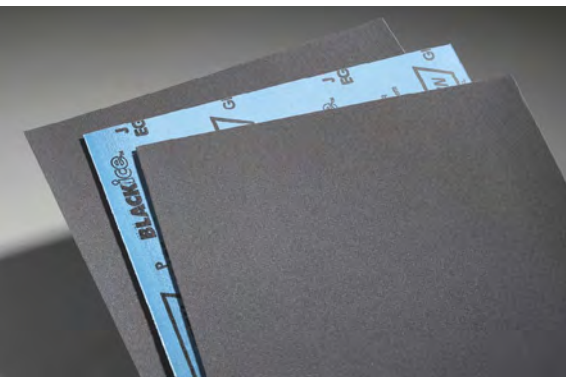
SIZE (W x L)	GRIT	MIN./STD. PKG.	PART #	PART #	PART #	PART #
9 x 11	60	50/250		07660768175*		
	80	50/250	66261131634	07660768174*	66254487393	66623311878
	100	100/500	66261131633	07660768173*	66254487394	66623311877
	120	100/500	66261131632	07660768172*	66254487395	66623311876
	150	100/500	66261131631	07660768171*	66254487396	66623311875
	180	100/500	66261131630	07660768168*	66254487397	66623311874
	220	100/500	66261131629	07660768167*	66254487398	66623311873
	240	100/500	66261131628		66254487399	66623311879
	280	100/500	66261131627			
	320	100/500	66261131626	07660768166*	66254487400	66623311871
	400	100/500	66261131624	07660768165*		66623311870
	500	100/500	66261131623			
	600	100/500	66261131622			
	800	100/500	66261131621			
	1000	100/500	66261131620			
	1200	100/500	66261131619			
1500	100/500	66261131618				

* Packaging Standards: ProSand A259PS Job Packs: 20 sheets per pack / 10 packs per standard package for a total of 200 sheets

Waterproof Aluminum Oxide and Silicon Carbide 9" x 11" Sheets

NORTON BLACK ICE T214 AND T401 A/O WATERPROOF

BEST CHOICE FOR ALL WET APPLICATIONS



FEATURES

- Black Ice T214: Premium, P-graded, heat-treated aluminum oxide abrasive
- Black Ice T401: Premium, ultra fine (1000 – 2500 JIS graded) silicon carbide abrasive
- Improved resin bond system
- High-strength B-weight high-latex, waterproof paper backing

BENEFITS

- Ultimate cut and life in wet application
- Ultimate finish in wet applications
- Long life in wet applications
- Ultimate flexibility, with wet-curl resistance
- Environmentally stable, resists humidity-caused curling

9 x 11
Paper Sheets



TIER:	BEST	BEST	BETTER	GOOD
BRAND:	Norton	Norton	Norton	Norton
TRADENAME:	BLACK ICE T214	BLACK ICE T401	BLUE-BAK T414	TUFBAK T461
ABRASIVE:	Aluminum Oxide	Silicon Carbide	Silicon Carbide	Silicon Carbide
BACKING WEIGHT:	B-Weight	B-Weight	B-Weight	C-Weight
OTHER:	P-Graded	JIS Graded	ANSI Graded	ANSI Graded

SIZE (W x L)	GRIT	MIN./STD. PKG.	PART #	PART #	PART #	PART #
9 x 11	60	50/250				66261101175
	80	50/250				66261101170
	100	50/250				66261101165
	120	50/250				66261101160
	150	50/250				66261101155
	180	50/250				66261101150
	220	50/250	66261139389		66261139367	
	240	50/250	66261139388		66261139366	66261130331
	280	50/250			66261139365	
	320	50/250	66261139386		66261139364	66261130332
	360	50/250			66261139363	
	400	50/250	66261139385		66261139362	66261130333
	500	50/250	66261139384		66261139361	
	600	50/250	66261139383		66261139360	66261130334
	800	50/250	66261139382			
	1000	50/250		66261139381		
1200	50/250		66261139380			
1500	50/250		66261139379			
2000	50/250		66261139378			
2500	50/250		66261139377			



Waterproof Sanding Blocks – with “grabbing” power

Dual Density Wet Sanding Block

- No adhesive required: simply wrap a 5-1/2" x 9" (9" x 11" cut in half) sheet around the block
- The dense side is for more aggressive blocking, while the soft side is for color sanding
- Equalizes sanding pressure for fine grit applications



Holey Block

- No adhesive required: simply wrap a 5-1/2" x 9" (9" x 11" cut in half) sheet around the block
- A rugged, semi-rigid, multi-purpose sanding block engineered for flat to medium curved surfaces
- A tactical hole pattern side provides numerous cutting edges to create a 30% faster cut rate
- The plain side provides firmness and a comfortable, easy-to-hold surface

DESCRIPTION	STD. PKG.	PART #
Wet Sanding Block	12	63642503728
Holey Block	8	63642503729

File Strips

NORTON BLUEFIRE H875P ZIRCONIA ALUMINA

EXCELLENT FOR SOFT MATERIAL APPLICATIONS

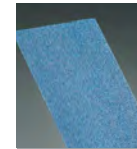
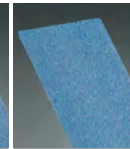
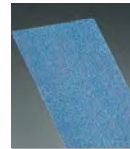
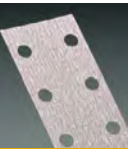
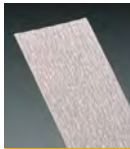
FEATURES

- Patented zirconia abrasive
- Strong E-weight paper, latex impregnated
- Open coat design

BENEFITS

- Extended life over original NorZon products
- Increased durability and chip resistance, flexible
- Reduced loading; ideal for body filler, fiberglass, composite sanding

Paper File Strips
PSA (Pressure Sensitive Adhesive)
and Non-PSA



TIER:	BEST	BEST	BEST	BEST
BRAND:	Norton	Norton	Norton	Norton
TRADENAME:	OP A275 NO-FIL	OP A275 NO-FIL	OP A275 NO-FIL	OP A275 NO-FIL
ABRASIVE:	A/O	A/O	A/O	A/O
BACKING WEIGHT:	B-Weight	B-Weight	B-Weight	B-Weight
BACKING ATTACHMENT:	Non-PSA	PSA	Hook/Loop	Hook/Loop Vac
OTHER:	P-Graded	P-Graded	P-Graded	P-Graded

BETTER	BETTER	BETTER
Norton	Norton	Norton
BLUEFIRE H875P	BLUEFIRE H875P	BLUEFIRE H875P
Z/A	Z/A	Z/A
E-Weight	E-Weight	E-Weight
Non-PSA	PSA	Hook/Loop

SIZE (W x L)	GRIT	MIN/STD. PKG.	PART #	PART #	PART #	PART #	MIN/STD. PKG.	PART #	PART #	MIN/STD. PKG.	PART #
2-3/4 x 16	100	50/500									
	120	50/500									
	180	50/500									
2-3/4 x 16-1/2	36										
	40						50/250		66261123610	25/125	66261123616
	80	50/500		66261131640		66261131646	50/250		66261123609	25/125	66261123615
	100	50/500		66261131639		66261131645	50/250		66261123608	25/125	66261123614
	120	50/500				66261131644					
	150	50/500		66261131637		66261131643					
	180	50/500		66261131636		66261131642					
	220	50/500				66261131641					
2-3/4 x 17-1/2	36						50/250	66261123622			
	40						50/250	66261123621			
	80	50/500	66261131652				50/250	66261123620			
	100	50/500	66261131651				50/250	66261126512			
	120	50/500	66261131650								
	150	50/500	66261131649								
	180	50/500	66261131648				50/250	66261126511			
220	50/500	66261131647									



VACUUM HOLE PATTERN FOR 2-3/4 X 16 FILE STRIPS

Sanding Boards



PSA/Non-PSA Sanding Board

- This sanding board has a cushioned surface
- Spring clips mounted at each end securely hold 2-3/4" x 16-1/2" PSA file strips and 2-3/4" x 17-1/2" non-PSA file strips



Hook and Loop and Non-PSA Sanding Board

- Lightweight, rugged design for easy sanding of plastic fillers
- Spring clips mounted at each end securely hold 2-3/4" x 16-1/2" hook and loop file strips and 2-3/4" x 17-1/2" non-PSA file strips
- Air file shoe eliminates the need for clips. The quick-change backing positively locks and unlocks for fast use.



DESCRIPTION	STD. PKG.	PART #
PSA/Non-PSA File Strip Sanding Board	6	63642542724
Hook and Loop/Non-PSA File Strip Sanding Board	5	63642552836
Hook and Loop Air File Shoe	5	63642552835

Hand Sanding Cut Sheets

Paper Cut Sheets



TIER:	GOOD	GOOD
BRAND:	Norton	Norton
TRADENAME:	A290 NO-FIL	A213
ABRASIVE:	Aluminum Oxide	Aluminum Oxide
BACKING WEIGHT:	C-Weight	C-Weight
OTHER:	P-Graded	P-Graded

SIZE (W x L)	GRIT	MIN./STD. PKG.	PART #	PART #
3-2/3 x 9	60	100/1000		66261102925
	80	100/1000	66261101119	66261102920
	100	100/1000		66261102900
	120	100/1000		66261102895
	180	100/1000	66261101124	
	220	100/1000	66261101123	

Rubber Hand Sanding Blocks

- Resilient rubber blocks that conform well to mild contours and flat surfaces



DESCRIPTION	STD. PKG.	PART #
2-3/4 x 5	5	07660701889

PSA Rolls

PSA (Pressure Sensitive Adhesive) Paper Rolls

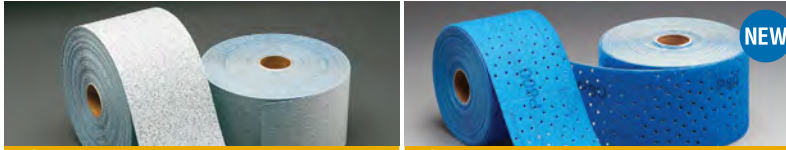


TIER:	BEST	BEST	BEST	BETTER	BETTER	BETTER	BETTER	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton	Norton	Norton	Norton
TRADENAME:	DRY ICE A975 NO-FIL	DRY ICE A975 NO-FIL	DRY ICE A975 NO-FIL	OP A275 NO-FIL	OP A275 NO-FIL	OP A275 NO-FIL	OP A275 NO-FIL	GOLD RESERVE A296 NO-FIL
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Ceramic Alumina	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
BACKING WEIGHT:	C-Weight.	C-Weight.	B-Weight.	B-Weight.	B-Weight.	B-Weight.	B-Weight.	B-Weight
BACKING ATTACHMENT:	PSA	PSA	PSA	PSA	PSA	PSA	PSA	PSA
OTHER:	P-Graded	P-Graded	P-Graded	P-Graded	P-Graded	P-Graded	P-Graded	P-Graded
SIZE:	2-3/4" x 25 yd	2-3/4" x 30 yd	2-3/4" x 45 yd	2-3/4" x 25 yd	2-3/4" x 30 yd	2-3/4" x 45 yd	4-1/2 x 10 yd	2-3/4" x 25 yd

GRIT	MIN./STD. PKG.	PART #	PART #	PART #	PART #	PART #	PART #	PART #
80	1/5	66261149566			66261131691			66261131697
100	1/5					66261131690		66261131696
120	1/5		66261149564			66261131689		66261131695
150	1/5			66261149563			66261131688	66261131694
180	1/5			66261149562			66261131687	66261131693
220	1/5			66261149561			66261131686	66261131692
240	1/5						66261131685	
320	1/5			66261149558			66261131683	
400	1/5			66261149557			66261131681	
500								
600	1/5						66261131679	

Hook & Loop Rolls

Hook and Loop Paper Rolls



BEST			BEST		
TIER: BEST			TIER: BEST		
BRAND: Norton			BRAND: Norton		
TRADENAME: DRY ICE A975 NO-FIL			TRADENAME: DRY ICE A975 MULTI-AIR CYCLONIC		
ABRASIVE: Ceramic Alumina			ABRASIVE: Ceramic Alumina		
BACKING WEIGHT: B-Weight.			BACKING WEIGHT: C- & B-Weight		
BACKING ATTACHMENT: Hook & Loop			BACKING ATTACHMENT: Hook & Loop		
OTHER: P-Graded			OTHER: P-Graded		
SIZE: 2-3/4" x 13 yd			SIZE: 2-3/4" x 13 yd		
GRIT	MIN./STD. PKG.	PART #	PART #		
80	1/4	63642506261	63642506113		
120	1/4	63642506259	63642506114		
150	1/4	63642506258	63642506117		
180	1/4	63642506257	63642506118		
220	1/4	63642506256	63642506119		
240	1/4		63642506120		
320	1/4	63642506255	63642506121		
400	1/4	66623329518	63642506122		
500	1/4	66623329547	63642506123		
600	1/4	66623329548	63642506124		

2-3/4" wide hook and loop paper rolls are perforated at 2-3/4" which allows use on all standard lengths of hand blocks and file boards.

Roll Accessories



PSA Roll Dispenser

- Heavy-duty wire dispenser has a vinyl coating to protect the work surface
- Accommodates two 2-3/4" PSA rolls; stackable for multi-grit operations. Attach to wall or mount on cabinet

DESCRIPTION	STD. PKG.	PART #
PSA Roll Dispenser	1	63642542773



PSA/Hook & Loop Sanding Blocks

- Ergonomically-shaped flexible foam blocks used with 2-3/4" rolls, fit comfortably in your hand
- Firm block produces a truly flat surface
- The soft block is designed for flat surfaces and contours

SIZE	DESCRIPTION	STD. PKG.	BACKING ATTACHMENT:	
			PSA	Hook & Loop
			PART #	PART #
2-3/4 x 5	Soft	5	63642542090	63642542092
2-3/4 x 5	Firm	5	63642542091	63642542093
2-3/4 x 7-3/4	Soft	5		63642542095
2-3/4 x 7-3/4	Firm	5	63642542094	

Rotolo Foam Sanding Pads

APPLICATION/GRIT RECOMMENDATION GUIDE

← COARSER												FINER →														
120	150	180	220	240	280	320	400	500	600	800	1000	120	150	180	220	240	280	320	400	500	600	800	1000			
Cleaning/Repairing			Final Sanding			Feather Edging			Basecoat Sanding			Clearcoat Sanding														

NO-FIL NORTON OP A275ROTOLO FOAM ROLLS

THE BETTER CHOICE FOR FINE SANDING FLAT AND CURVED SURFACES



FEATURES

- Original Performance A275 (premium P-graded, aluminum oxide grain with No-Fil coating) on Rotolo foam backing
- 4-1/2" wide x 82' long roll perforated every 5-1/2 inches
- Convenient dispensing box

BENEFITS

- Perfect for hand sanding without leaving finger marks
- Provides outstanding finish on wood, metal, composites, primers, sealers, and top coats
- Fast cut and long life without loading
- Compatible with all coatings
- 50% – 60% improvement in tear strength
- Standard 1/4 sheet size for hand or machine sanding
- 178 sheets per roll
- Protects A275 Rotolo foam from damage

TIER: **BETTER**
 BRAND: Norton
 TRADENAME: **OP A275 ROTOLO**
 ABRASIVE: Aluminum Oxide
 OTHER: P-Graded

SIZE (W x L)	GRIT SIZE	ROLLS/STD. PKG.	PART #
4-1/2" x 82'	120	2	63642535316
	150	2	63642557584
	180	2	63642557599
	220	2	63642557600
	240	2	63642557602
	280	2	63642557604
	320	2	63642557606
	400	2	63642557608
	500	2	63642557611
	600	2	63642557612
	800	2	63642557613
	1000	2	63642557616



CLOTH SHEETS AND ROLLS



Engineered for flexibility and fast cutting, cloth sheets and rolls have a longer life than paper. They tear cleanly and straight without shedding and are packed in a protective dispenser to eliminate waste and damage.

- Categories: All purpose, fine finishing, and screen-back
 Applications: Scouring and light deburring, scale and rust removal, blending and fine sanding, polishing lathe turnings, rolls and cylinders, and blending machine tool marks
 Size Range: Sheets: 9" x 11"
 Rolls: 1" x 10 yds., 1-1/2" – 2" x 25 yds., 1" – 4" x 50 yds.
 Grit Range: 40 – 600, extra coarse, coarse, medium, fine
 Abrasive Grain: Aluminum Oxide, Silicon Carbide, Emery
 Machine Used:



CROSS REFERENCE GUIDE

	GOOD			
NORTON	Metalite K225	Norton R243	Emery K622	Screen-Bak Q421
3M	311T Three-M-lte BG 211K Electrocut	211K Three-M-lte 311K Three-M-lte	011k Crystal Bay	481Q
Hermes	RB317LX	RB232J	–	–
Klingspor	CS310X	KL361	KL371	–
Sait	DA-F	EA-F	–	Saitscreen
SIA	–	2947J	C680J	–
VSM	KK504X	KK504J, KK504X	–	–

APPLICATION/STARTING RECOMMENDATION GUIDE

Durability/Stock Removal	Conformability	Slower Cut	Waterproof
Fast Cut	Excellent Finish	Fine Finish	Load Resistant
Metalite K225	Norton R243	Emery K622	Screen-Bak Durite Q421

NORTON METALITE K225 ALUMINUM OXIDE

GOOD CHOICE FOR GENERAL-PURPOSE METAL AND WOODWORKING APPLICATIONS



FEATURES & BENEFITS

- Superior conformability to flat and complex surfaces, better finishes, and fast cutting action provided by our quality, P-graded aluminum oxide abrasives and smooth, J-wt. flexible cotton backing; 40-60 grits rolls and sheets are supplied in durable, but smooth, flexible X-Weight cotton backing
- The full grit range – P40 - P600 – allows one product family to be used on your scouring to finishing jobs

NORTON R243 ALUMINUM OXIDE

GOOD CHOICE FOR SMALL-VOLUME METAL AND WOODWORKING APPLICATIONS AT A LOW INITIAL PRICE



FEATURES & BENEFITS

- Superior conformability to flat and complex surfaces, better finishes, and fast cutting action provided by our quality, P-graded aluminum oxide abrasives and smooth, J-weight flexible cotton backing
- The full grit range – P40 - P600 – allows one product family to be used on your scouring to finishing jobs
- Our low initial price makes these the products of choice for numerous small volume jobs where you are unable to measure performance

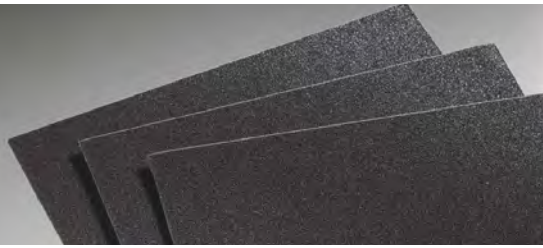
CLOTH SHEETS AND ROLLS

NORTON K622 EMERY

GOOD CHOICE FOR REMOVING RUST, PAINT AND SCALE FROM METAL SURFACES

FEATURES & BENEFITS

- Natural emery abrasive is coated onto a flexible cloth backing for increased durability
- Used for light deburring and cleaning
- Ideal for hand sanding, deburring, polishing and removing cutting tool marks on all metal parts



NORTON SCREEN-BAK Q421 SILICON CARBIDE

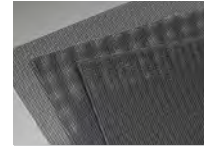
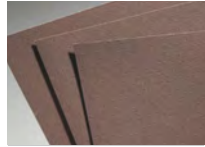
GOOD CHOICE FOR SANDING SOFTER MATERIALS WHERE LOADING IS A MAJOR PROBLEM SUCH AS PLASTIC, COPPER, BRASS, PLASTER, WOOD, AND DRYWALL

FEATURES & BENEFITS

- Coated on both sides with P-graded silicon carbide for excellent cutting and non-loading properties
- Open weave screen for extreme resistance to loading when removing scale, rust and corrosion
- Open mesh design is waterproof and washable, allowing you to rinse and reuse



Cloth Sheets



TIER:	Good	Good	Good
BRAND:	Norton	Norton	Norton
TRADENAME:	METALITE K225	EMERY K622	SCREEN-BAK Q421
ABRASIVE:	Aluminum Oxide	Emery	Silicon Carbide
BACKING:	J-Weight Cotton	J-Weight Cotton	Mesh
OTHER:	P-Graded		P-Graded/Waterproof

SIZE (W x L)	GRIT	MIN./STD. PKG.	PART #	PART #	MIN./STD. PKG.	PART #
9 x 11	40	25/125	66261058713+			
	50	25/125	66261101862+			
	60	25/125	66261101861+			
	80	25/125	66261126340		25/125	66261100960
	100	50/250	66261126339		25/125	66261100955
	120	50/250	66261126338		25/125	66261100950
	150	50/250	66261126337		25/125	66261100945
	180	50/250	66261126336		25/125	66261100940
	220	50/250	66261126335		25/125	66261100935
	240	50/250	66261126334			
	280	50/250	66261126333			
	320	50/250	66261126332		25/125	66261100920
	400	50/250	66261126331		25/125	66261100915
	500	50/250				
	600	50/250	66261126330			
	Extra Coarse	25/125			66261101255	
	Coarse	25/125			07660701307	
Medium	50/250			07660701309		
Fine	50/250			07660701308		

+ 40 - 60 grit are supplied in durable, but flexible X-weight cotton backing

Cloth Rolls



TIER:	GOOD	GOOD	GOOD	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton
TRADENAME:	METALITE K225	METALITE K225	METALITE K225	METALITE K225	METALITE K225
ABRASIVE:	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
BACKING:	J-Weight Cotton	J-Weight Cotton	J-Weight Cotton	J-Weight Cotton	J-Weight Cotton
SIZE:	1" x 10 yds	1" x 50 yds	1-1/2" x 50 yds	2" x 50 yds	4" x 50 yds
OTHER:	P-Graded	P-Graded	P-Graded	P-Graded	P-Graded

GRIT	STD. PKG.	PART #	PART #	PART #	PART #	PART #
40	1		66261058716+	66261058715+	66261058714+	
50	1		66261127728+	66261127730+	66261127732+	
60	1		66261127729+	66261127731+	66261127733+	
80	1	66261134298	66261126276	66261126288	66261126299	
100	1	66261134299	66261126275	66261126287	66261126298	
120	1	66261134300	66261126274	66261126286	66261126297	66261127285*
150	1	66261134301	66261126273	66261126285	66261126296	
180	1	66261134302	66261126272	66261126284	66261126295	
220	1		66261126271	66261126283	66261126294	
240	1	66261134303	66261126270	66261126282	66261126293	
280	1		66261126269	66261126281	66261126292	
320	1	66261134304	66261126268	66261126280	66261126291	
400	1		66261126267	66261126279	66261126290	
600	1		66261126266	66261126278	66261126289	

+ 40 - 60 grit, are supplied in durable, but flexible X-weight cotton backing
* Packaging Standards: 4" Roll Std. Pkg.: 6 rolls

Cloth Rolls

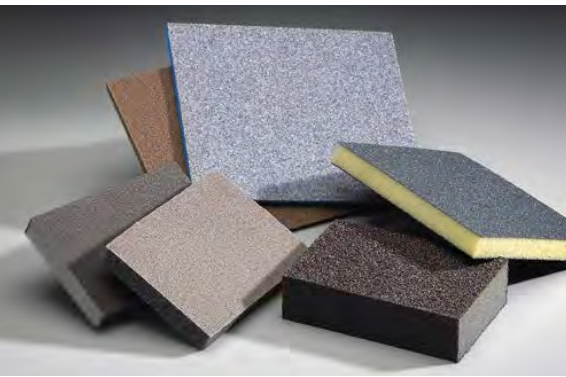


TIER:	GOOD	GOOD	GOOD	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton
TRADENAME:	R243	R243	R243	SCREEN-BAK Q421	SCREEN-BAK Q421
ABRASIVE:	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Silicon Carbide	Silicon Carbide
BACKING:	J-Weight Cotton	J-Weight Cotton	J-Weight Cotton	Mesh	Mesh
SIZE:	1" x 50 yds	1-1/2" x 50 yds	2" x 50 yds	1-1/2" x 25 yds	2" x 25 yds
OTHER:	P-Graded	P-Graded	P-Graded	P-Graded Waterproof	P-Graded Waterproof

GRIT	STD. PKG.	PART #	PART #	PART #	PART #	PART #
60	1	66261136178	66261136190	66261136203		
80	1	66261136179	66261136192	66261136204	66261107275*	
100	1	66261136180	66261136194	66261136205		
120	1	66261136181	66261136195	66261136206	66261107270*	66261149811*
150	1	66261136182	66261136196	66261136207		
180	1	66261136186	66261136199	66261136208	66261107265*	
240	1	66261136187	66261136200	66261136209		
320	1	66261136188	66261136201	66261136210		
400	1	66261136189	66261136202	66261136211		

* Packaging Standards: Screen-Bak Q421 Std. Pkg.: 10 rolls





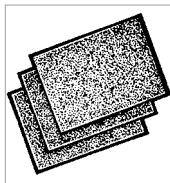
Flexible, abrasive sanding sponges for a wide variety of curved, contoured or flat surface applications on wood, metal, paint, plastic, ceramics and drywall.

- Applications:** Light stock removal, sanding sealer and wash-coats, touch-up or repair of primer, sanding contours and intricate shapes, and finishing
- Benefits:** Can be used wet or dry
Clog resistant, washable, reusable
Easy to use, can be folded without cracking
Conformable
Generate a consistent surface finish

Machine Used:



WHY CHOOSE ABRASIVE SPONGES VERSUS CONVENTIONAL SHEETS?



Eliminate Clogging

- The combination of flexible foam backing material and abrasive grit adhesion continually releases sanded material
- Any clogging can be washed out

Pressure Control

- Foam backing allows optimum pressure distribution to prevent sanding through surfaces
- Pressure spots are eliminated providing even surface pattern

Adapt to Contours

- Flexible foam allows adaptability to contours, shapes or areas of limited access
- No folding or buckling results in an even pattern without scratching

SURFACE FINISHING CHART – CONTOUR SPONGES VERSUS SHEETS

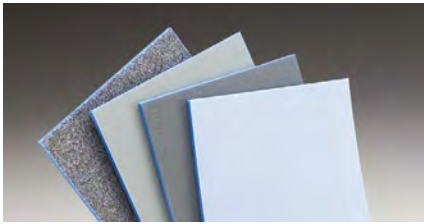
← COARSER													FINER →												
P150	P180	P220	P280	P320	P400	P500	P600	P800	P1000	P1200	P1500	P2000	P150	P180	P220	P280	P320	P400	P500	P600	P800	P1000	P1200	P1500	P2000
Medium 60		Fine 100		Extra Fine 150		Super Fine 180		Ultra Fine 220		Micro Fine 280/320															

SURFACE FINISHING CHART – SPONGE PADS VERSUS SHEETS

← COARSER														FINER →													
P80	P100	P120	P150	P180	P220	P280	P320	P400	P500	P600	P800	P1000	P1200	P80	P100	P120	P150	P180	P220	P280	P320	P400	P500	P600	P800	P1000	P1200
Extra Coarse 36		Coarse 60		Medium 80 - 120		Fine 120 - 150		Very Fine 180 - 220		Micro Fine 280 - 320																	

CROSS REFERENCE GUIDE

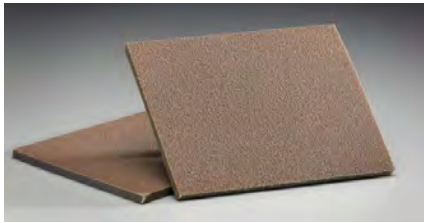
	BETTER	GOOD	GOOD	GOOD	GOOD	GOOD
NORTON	SoftTouch	Contour	Small Area	Profile	Sealer Sanding	Flexible
3M	Softback	Contour	Full Size	High Flexibility	Woodworking	Pro Pads
Hermes	Single Side	–	Four Sided	–	Two Sided	–
Klingspor	–	–	–	–	Foam Sanding Pad	–
SIA	Flat Pad	–	Standard Block	–	Standard Pad	–



BETTER SoftTouch Contour Sponges – Coated 1 side

- Superior flexibility; for hand-sanding or finishing flat, curved, contoured and hard-to-reach areas on wood, metal, composites, paint and solid surfaces
- Premium foam substrate provides for an extremely smooth and uniform sanded surface

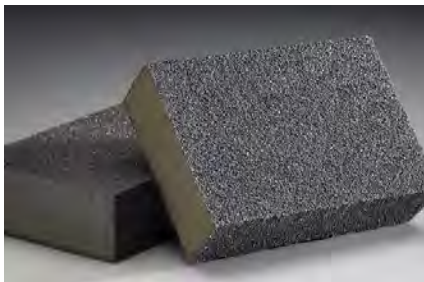
SIZE (W x L x T)	GRIT	STD. PKG.	PART #
4-1/2 x 5-1/2 x 3/16	60 Medium	80	07660703074
	100 Fine	80	07660703075
	180 Super Fine	80	07660703076
	220 Ultra Fine	80	07660703077
	280 Micro Fine	80	07660703078



GOOD Contour Sponges – Coated 1 side

- Thin, flexible; good for sanding small diameters and contours such as ceramics, spindles, turnings and railings

SIZE (W x L x T)	GRIT	STD. PKG.	PART #
4-1/2 x 5-1/2 x 3/16	100 Fine	100	07660702257
	150 Extra Fine	100	07660702256
	220 Ultra Fine	100	07660702255



GOOD Small Area General Purpose Sponges – Coated 4 sides

- Good for a wide variety of materials and sanding applications where moderate flexibility is needed
- Medium to firm density open cell polyurethane foam provides uniform support and moderately aggressive cutting action while generating a smooth surface

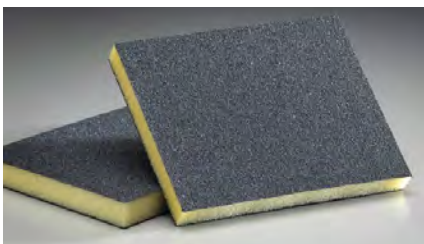
SIZE (W x L x T)	GRIT	STD. PKG.	PART #	BULK PKG.	PART #
4 x 2-3/4 x 1	36/80	24	07660749505	250	07660704735
	Ex. Coarse/Med				
	80/80	24	07660749507	250	07660701875
	Med/Med				
	80/120	24	07660749504	250	07660702600
	Med/Fine				
	120/120	24	07660749506		
	Fine/Fine				



GOOD Profile Sponges – Coated 3 sides

- Good for corners and flat surfaces on wood, metal, plastic and paint
- Ideal for cabinet sanding of raised profile doors

SIZE (W x L x T)	GRIT	STD. PKG.	PART #
4 x 2-3/4 x 1/2	100 Medium	500	63642536313



GOOD Sealer Sanding Sponges – Coated 2 sides

- Very flexible; silicon carbide abrasive for sanding primers, sealers and between coats on furniture and cabinets

SIZE (W x L x T)	GRIT	BULK PKG.	PART #
4-3/4 x 3-3/4 x 1/2	36 Extra Coarse	250	63642502538
	60 Coarse	250	63642552870
	100 Medium	250	63642552869
	150 Fine	250	63642552868



GOOD Flexible Abrasive Sponges – Coated 1 side

- Ideal for final sanding of surfaces, primer sanding, and between coats sanding
- Best initial price point for abrasive sponges

SIZE (W x L x T)	GRIT	STD. PKG.	PART #	BULK PKG.	PART #
3 x 4 x 1/2	60 Coarse	48	07660704068	108	07660701110
	80 Medium	48	07660704067	108	07660704070
	100 Medium	48	07660704066	108	07660700950
	150 Fine	48	07660704065	108	07660700949
	220 Very Fine			108	07660704069



Portable file belt sanders have replaced tedious hand filing and sanding. First introduced in pneumatic, they are now also available in electric. Increasingly, tool manufacturers are introducing additional fixtures for additional applications. The belts listed are popular stock sizes, but additional sizes, specifications, backing materials, and edge scallops are available made-to-order.

Applications: Light weld removal and blending, shape and contour sanding, surface preparation prior to coating and plating, removing cutting tool marks from molds and dies, general clean-up and finishing

Size Range: 1/8" to 1" wide, 12" to 30" long

Grit Range: 40 – 120

Abrasive Grain: Ceramic Alumina, Zirconia Alumina, Aluminum Oxide

Machine Used:

CROSS REFERENCE GUIDE

	BEST	BEST	BETTER	GOOD	GOOD
NORTON	Blaze R980P	Norton SG R981	BlueFire R887P/R823P	Metalite R283	R766
3M	984F, 977F	963G, 967F	577F, 777F	241E	363F
Hermes	CR456	–	RB486 44 Z	RB317J, RB316EJ RB303 Flex	SB 378 YR
Klingspor	CS610YY	–	CS411YX, CS 409Y	CS310XF	CS412
SIA	–	–	–	933A, 936A	–
VSM	SK840X, SK750X	–	KK715X	KK711T, KK511J	KK711

MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

	HEAVY-DUTY		GENERAL-DUTY
	BEST Highest Productivity; Lowest Total Cost.	BETTER Excellent Blend of Performance & Price	GOOD Consistent Performance; Low Initial Price
Carbon Steel	Norton Blaze R980P	Norton BlueFire R887P/R823P	Norton R766
Stainless Steel / Alloys	Norton Blaze R980P	Norton BlueFire R887P/R823P	Norton R766
Cast Iron	Norton Blaze R980P	Norton BlueFire R887P/R823P	Norton R766
Brass/Bronze	–	Norton BlueFire R887P/R823P	Norton R766
Aluminum	–	Norton BlueFire R887P/R823P	Norton R766

NORTON BLAZE R980P CERAMIC ALUMINA

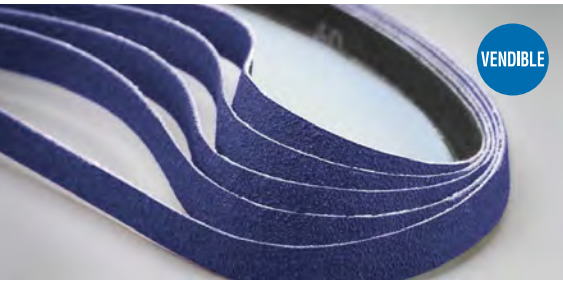
BEST FOR STAINLESS, COBALT, CHROME, INCONEL, TITANIUM, MILD AND CARBON STEEL



FEATURES	BENEFITS
<ul style="list-style-type: none"> Next-generation cooler cutting Norton SG ceramic alumina grain 	<ul style="list-style-type: none"> Lasts 50% to 200% longer on mild and carbon steel, stainless, cobalt, chrome, Inconel and titanium Better metal integrity
<ul style="list-style-type: none"> Y-weight polyester waterproof cloth backing 	<ul style="list-style-type: none"> Edge-fray resistance Excellent body-retention for more consistent grinding throughout belt life
<ul style="list-style-type: none"> Improved resin bond system 	<ul style="list-style-type: none"> Significantly improved belt life due to exceptional grain adhesion
<ul style="list-style-type: none"> Advanced "supersize" grinding lubricant 	<ul style="list-style-type: none"> Cooler cutting throughout the life of the belt Improved part finish and integrity

NORTON BLUEFIRE R887/R823P ZIRCONIA ALUMINA

THE BETTER CHOICE FOR STAINLESS AND CARBON STEEL



VENDIBLE

FEATURES & BENEFITS

- High-performance, self-sharpening zirconia alumina abrasive for industry-leading cut rate and life
- High-performance resin bond provides strong grain adhesion, longer life
- Strong Y-weight polyester backing - R887P for heavy-duty stock removal applications
- Flexible X-weight polyester backing - R823P for moderate- to light-pressure applications

NORTON R766 ALUMINUM OXIDE

GOOD CHOICE FOR DIFFICULT-TO-GRIND MATERIALS (ALUMINUM, BRASS, BRONZE, STAINLESS, CARBON STEEL, TITANIUM, ETC.)



FEATURES & BENEFITS

- Premium aluminum oxide abrasive blend is ideal when purchasing criteria is a good-performing, economically priced, general purpose belt
- Resin bond system provides good edge retention and life versus key competitors
- Y-weight waterproof polyester backing withstands light- to moderately-demanding applications and provides extended life on dry grinding applications



TIER:	BEST	BEST	BETTER	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton
TRADENAME:	BLAZE R980P	NORTON SG R981	BLUEFIRE R887/R823P+	R766	METALITE R283
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Zirconia Alumina	Aluminum Oxide Blend	Aluminum Oxide
BACKING:	Y-Weight Polyester	Y-Weight Polyester	Y- or X-Weight Polyester	Y-Weight Polyester	X-Weight Rayon
OTHER:	Supersize	Supersize			

SIZE (W x L)	GRIT	STD. PKG.	PART #	PART #	PART #	PART #	PART #
12" Belts							
1/8 x 12	40	50	66254491518		66254492520	66623390000	66254491536
	60	50	66254405345	66254491522	66261093029	66623390001	
	80	50	66261089479	66254491523	66261093030	66623390002	66254491537
	120	50	66254491519	66254491524	66254491533		66254491538
1/4 x 12	40	50	66254491520	66254491525		66623390003	66254491539
	60	50	66261196480		78072758896	66623390004	
	80	50	66261063617	66254491526	78072782621	66623390005	78072766143
	120	50	66261063632	66254491527	78072782622		78072763175
1/2 x 12	40	50	69957398018	66254491528	66254492522	66623390006	78072727557
	50	50	66261043759	78072718700	66254492523	66623390007	66254491540
	60	50	69957398019	78072718701	78072728745	66623390008	78072727555
	60	25 V			66623373753		
	80	50	69957398020	78072718702	78072728744	66623390009	78072727554
	80	25 V			66623373754		
	100	50	66261081180	66254491529	66254491534		78072727553
	120	50	66261042909	78072700518	78072728742		78072727552
120	25 V			66623373755			
1 x 12	60	50	66261063641		78072753073	66623390010	78072773813
13" Belts							
3/8 x 13	60	50	69957345359	78072745459	78072740295	66623390011	78072732112
	80	50	69957392150	78072774916	78072736062	66623390012	78072771323
18" Belts							
1/8 x 18	40	50	66254475211		66254492524	66623390013	66254491541
	60	50	66261080010		66254491535	66623390014	
	80	50	66261089120	78072789083	78072760595	66623390015	
	120	50	66254475215	78072789084	63642595221		

Additional sizes, grits and scalloped edge belts are available MTO (made-to-order). Please contact your local Norton Distributor to check availability. +40 and 50 grit BlueFire belts are furnished in BlueFire R887 (Y-wt Polyester); 60-120 grits are supplied in BlueFire R823P (X-wt. Polyester).

Joints – All belts are PG jointed; a butt joint joined with flexible tape for contour grinding.

V = Vendible package. Ideal for vending machines and small jobs. 5 belts per pack / 5 packs per carton. Order in multiples of 25.

continued



TIER:	BEST	BEST	BETTER	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton
TRADENAME:	BLAZE R980P	NORTON SG R981	BLUEFIRE R887/R823P+	R766	METALITE R283
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Zirconia Alumina	Premium A/O Blend	Aluminum Oxide
BACKING:	Y-Weight Polyester	Y-Weight Polyester	Y- or X-Weight Polyester	Y-Weight Polyester	X-Weight Rayon
OTHER:	Supersize	Supersize			

SIZE (W x L)	GRIT	STD. PKG.	PART #	PART #	PART #	PART #	PART #
18" Belts (continued)							
1/4 x 18	40	50	66261027923	66261198953	66254492525	66623390016	66254491543
	60	50	69957347249	78072774684	78072743583	66623390017	78072771000
	60	25 V			66623373747		
	80	50	69957346155	78072703284	78072753075	66623390018	78072773921
	80	25 V			66623373748		
1/2 x 18	120	50	66261085071	78072785655	78072773764		
	40	50	69957398021	78072766018	66254444193	66623390019	78072727561
	60	50	69957398022	78072718704	78072728569	66623390020	78072727560
	60	25 V			66623373756		
	80	50	69957398023	78072718705	78072728568	66623390021	78072727559
3/4 x 18	80	25 V			66623373757		
	120	50	66261041384	78072718706	78072728567		78072727558
	120	25 V			66623373758		
	40	50	69957398027	78072762476	66254492526	66623390022	78072781797
	60	50	69957398028	78072745691	78072709590	66623390023	78072739966
20-1/2" Belts	60	25 V			66623373762		
	80	50	69957398029	78072756309	78072758953	66623390024	78072732289
	80	25 V			66623373763		
	120	25 V			66623373764		
	3/4 x 20-1/2	40	50	69957398030	78072714398	66254457869	66623390025
24" Belts	50	50	69957344982	78072718714	66254492527	66623390026	66254491544
	60	50	69957398031	78072718715	78072728560	66623390027	78072727571
	60	25 V			66623373765		
	80	50	69957398032	78072718716	78072728559	66623390028	78072727570
	80	25 V			66623373766		
100	50	66261055516	78072771151	66261038911		78072727569	
120	50	66261044755	78072727380	78072728557		78072727575	
1/4 x 24	40	50	66261198631	78072747823	66254473499	66623390029	66254401929
	60	50	69957345451	78072756534	78072728552	66623390030	78072727548
	60	25 V			66623373750		
	80	50	63642596940	78072718340	78072767713		
	120	50	66261080367	78072770718	78072728550		
1/2 x 24	40	50	69957398024	78072760092	66254492528	66623390032	78072727568
	50	50	66261043757	78072718707	66254452237	66623346910	78072727567
	60	50	69957398025	78072718708	78072728564	66623390033	78072727566
	60	25 V			66623373759		
	80	50	69957398026	78072718709	78072728566	66623390034	78072727565
1 x 24	80	25 V			66623373760		
	100	50	66261042203	78072745021	78072753076		66254491545
	120	50	66261042565	78072718710	78072728565		78072727564
	40	50	69957350019	66254491531	66254492529	66623390035	66254491546
	50	50	69957344889	78072710374	66254492530	66623390036	66254491547
30" Belts	60	50	69957353375	78072737318	78072798720	66623390037	66254491548
	80	50	69957345419	78072772209	78072776498	66623334206	66261085068
	120	50	66261085067	66254491532	78072730029		66261085069
1 x 30	40	50	66261053470		66254478257	66623390038	66261189958
	60	50	69957345985		78072728583	66623390039	66254491549
	80	50	69957346105	78072764439	78072728582	66623390040	78072727579
	120	50	66261193676	78072781197	78072766992		78072727577

Additional sizes, grits and scalloped edge belts are available MTO (made-to-order). Please contact your local Norton Distributor to check availability.

+40 and 50 grit BlueFire belts are furnished in BlueFire R887 (Y-wt Polyester); 60-120 grits are supplied in BlueFire R823P (X-wt. Polyester).

Joints - All belts are PG jointed; a butt joint joined with flexible tape for contour grinding.

V = Vendible package. Ideal for vending machines and small jobs. 5 belts per pack / 5 packs per carton. Order in multiples of 25.



Portable belts are ideal for all your metal and woodworking applications. Choose 36 – 50 grits for rough/heavy-duty applications, 60 – 100 for intermediate, and 100 – 220 for finishing/polishing applications.

The belts listed are popular stock sizes, but additional sizes, specifications, and backing materials, are available made-to-order

Applications: Grinding and finishing all metals, blending welds, sanding and finishing wood, glass seaming, and polishing
 Size Range: 3" to 4" wide, 15-1/2" to 24" long
 Grit Range: 36 – 220
 Abrasive Grain: Ceramic Alumina, Zirconia Alumina, Aluminum Oxide
 Machine used:



CROSS REFERENCE GUIDE

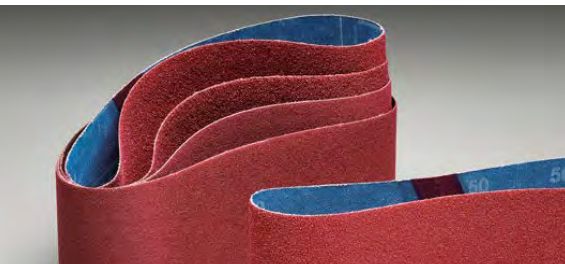
	BEST	BETTER	GOOD
NORTON	Norton SG R981	ProSand BlueFire	Metalite R215/R255
3M	977F, 967F, 963G	777F, 577F	241D, 340D
Hermes	RB346MX	RB484Z	RB316XOP
Klingspor	CS610YY	CS411Y	CS311YX, CS310X, LS309XH
Sait	–	ZH	AOX, IAX
SIA	–	–	2903XO, 2905X, 2920X
VSM	SK855X	ZK713X	KK511X, KK711X, KK504X

MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

	HEAVY-DUTY		GENERAL-DUTY	
	BEST Highest Productivity; Lowest Total Cost	BETTER Excellent Blend of Performance & Price	GOOD Consistent Performance; Low Initial Price	
Wood	–	Norton ProSand BlueFire	Norton Metalite R215/R255	
Stainless Steel / Carbon Steel	Norton SG R981	Norton ProSand BlueFire		
Brass / Bronze / Aluminum	–	Norton ProSand BlueFire	Norton Metalite R215/R255	

NORTON SG R981 CERAMIC ALUMINA

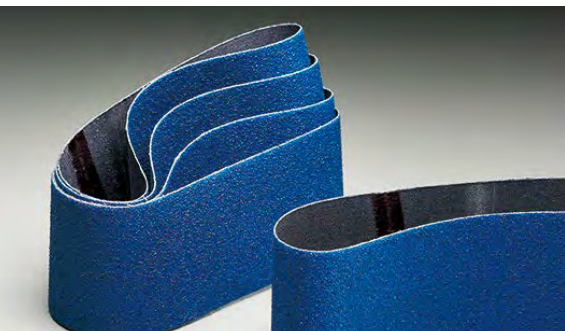
EXCEPTIONAL PERFORMANCE, ESPECIALLY ON HARD-TO-GRIND ALLOYS



FEATURES	BENEFITS
• Norton SG ceramic abrasive	• Exceptional life and value, especially on hard-to-grind alloys
• Grinding-aid enhanced	• Longer life, cooler cut
• Strong Y-weight polyester, waterproof cloth backing	• Improved grain adhesion, reduced edge-fray, and better body retention result in longer life and product consistency

NORTON PROSAND BLUEFIRE ZIRCONIA ALUMINA

THE BETTER CHOICE FOR STAINLESS STEEL AND WOOD



FEATURES	BENEFITS
• Premium, self-sharpening zirconia alumina	• Aggressive abrasive, rapid cut rate, long life
• Reversible butt splice	• Use in either direction for longer life
• Open-coat design, strong Y-weight cotton backing	• Reduced loading, extended life
• Packaged in convenient job packs	• Ideal for small jobs, carrying cleanly to job sites, and mounting on showroom displays

Portable Belts for Belt Sanders



TIER:	BETTER	GOOD
BRAND:	Norton	Norton
TRADENAME:	PROSAND BLUEFIRE	ALUMINUM OXIDE
ABRASIVE:	Zirconia Alumina	Aluminum Oxide
BACKING:	Y-Weight Cotton	X-Weight Cotton
JOINT:	Plyweld	Plyweld
GRAIN COATING:	Open Coat	Open Coat
OTHER:		

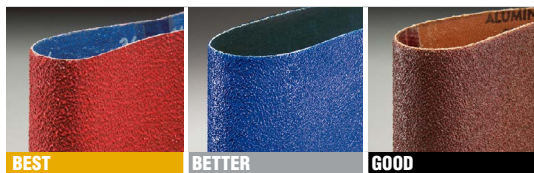


TIER:	GOOD
BRAND:	Norton
TRADENAME:	METALITE R255
ABRASIVE:	Aluminum Oxide
BACKING:	X-Weight Cotton
JOINT:	Plyweld
GRAIN COATING:	Open Coat
OTHER:	UPC Bar Coded

SIZE (W x L)	GRIT	MIN./STD. PKG.	PART #	PART #	STD. PKG.	PART #
3 x 18	36				5	78072780447
	50	5/25*	07660749259	07660700964	10	78072727994
	80	5/25*	07660749258	07660700968	10	78072727993
	120	5/25*	07660749256	07660700969	10	78072727992
3 x 21	36	5/25*	07660749266	07660701741		
	40				10	78072727927
	50	5/25*	07660749265	07660701740	10	78072727926
	60				10	78072727925
	80	5/25*	07660749264	07660702064	10	78072727924
	100	5/25*	07660749263		10	78072727923
	120	5/25*	07660749262	07660702062	10	78072727922
	220	5/25*		07660705287		
3 x 24	36	5/25*	07660749272	07660701743	5	78072781847
	40				10	78072727937
	50	5/25*	07660749271	07660701742	10	78072727936
	60				10	78072727935
	80	5/25*		07660702067	10	78072727934
	100	5/25*	07660749269	07660702066	10	78072727933
	120	5/25*	07660749268	07660702065	10	78072727932
4 x 24	36	5/25*	07660749278	07660701745	5	78072780438
	40				10	78072727947
	50	5/25*	07660749277	07660701744	10	78072727946
	60				10	78072727945
	80	5/25*	07660749276	07660702069	10	78072727944
	100	5/25*	07660749275		10	78072727943
	120	5/25*	07660749274	07660702068	10	78072727942
	180	5/25*		07660705285		

*Job Pack packing standards: 5 belts/Job Pack; 5 Job Packs per carton. Order by number of packs, in multiples of 5 packs.

Portable Belts for Pneumatic In-Line Drum Sanders



TIER:	BEST	BETTER	GOOD
BRAND:	Norton	Norton	Norton
TRADENAME:	SG R981	BLUEFIRE R823P	METALITE R215
ABRASIVE:	Ceramic Alumina	Zirconia Alumina	Aluminum Oxide
BACKING:	Y-Weight Polyester	X-Weight Polyester	X-Weight Cotton
JOINT:	Plyweld	Plyweld	Plyweld
GRAIN COATING:	Closed Coat/Supersize	Closed Coat	Open Coat

SIZE (W x L)	GRIT	STD. PKG.	PART #	PART #	PART #
3-1/2 x 15-1/2	36	10	78072700783		78072721997
	60	10	78072718750		78072722000
	80	10	78072718751	78072753074	78072721995
	120	10	78072718753		



A broad selection of sizes and grits for most dimensioning, intermediate grinding and polishing applications.

The belts listed are popular stock sizes, but additional sizes, specifications, and backing materials, are available made-to-order.

Applications: Benchstand and Backstand Belts: grinding and deburring of all metals, heavy stock removal, blending, dimensioning and shaping, polishing.

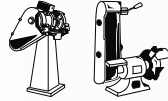
Centerless, Conveyor and Platen Belts: intermediate grinding stainless and carbon, moderate-pressure applications, dimensioning and finishing.

Size Range: 1" to 10" wide, 36" to 132" long

Grit Range: 24 – 320

Abrasive Grain: Ceramic Alumina, Zirconia Alumina, Aluminum Oxide

Machine Used:



CROSS REFERENCE GUIDE

	BEST	BEST	BETTER	BETTER	BETTER	BETTER	GOOD
NORTON	Blaze R980P	Norton SG R981	BlueFire R887P	BlueFire R821P	BlueFire R823P	BlueFire R884P	Metalite R228
3M	987F1, 977F, 777F, 967F, 963G, 963H, 984F	987F1, 977F, 777F, 967F, 963G, 963H	577F, 567G, 777F 977F	561D	561F Y, 551E XE 741A, 741E, 761D	561D, 561F, 563F 741A, 741E, 761D 761F	240DZ OPK, 270DZ OPK, 241D, 248D, 251D, 341I Imperial, 351D
Hermes	CR456	CR456	RB486X, RB486Y – RB426-23MX		RB486 X, RB346-23MX RB426-23MX, RB484TY RB486XF	RB484TY, RB486Y, RB346-23MX, RB426-23MX RB480-21MX, CB440Y, RB486XY	RB3160P RB317LX RB346MX
Klingspor	CS612YY, CS610YY	CS612YY, CS610YY	CS409Y	CS411Y	CS411X	CS411Y	CS311X, CS310, CS410
SIA	–	–	–	–	–	2800, 2803, 2929	2903XO, 2905X, 2920X
VSM	SK840X, SK750X	SK840X, SK750X	KK815Y, ZK744X	–	KK715X	KK716Y, ZK713X	KK511X, KK711

MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

	BEST Highest Productivity. Lowest Total Cost.	BETTER Excellent Blend of Performance & Price.	GOOD Consistent Performance. Low Initial Price.
Aluminum	–	Norton BlueFire R884P/R823P	Norton R766
Cast Iron	Norton Blaze R980P	Norton BlueFire R823P	Norton R766
Brass / Bronze	–	Norton BlueFire R884P/R823P	Norton R766
Die Castings	Norton Blaze R980P	Norton BlueFire R823P	Norton R766
Carbon Steel	Norton Blaze R980P	Norton BlueFire R823P	Norton R766
Glass / Ceramics	Norton Blaze R980P	Norton BlueFire R821P	Norton R766
Stainless Steel and Alloys	Norton Blaze R980P	Norton BlueFire R823P/R887P	Norton R766
Wood	–	Norton BlueFire R831/R884P	Norton R766

GRIT SELECTION RECOMMENDATION GUIDE

STOCK REMOVAL 24 – 50 grit	INTERMEDIATE 60 – 100 grit	FINISHING 120 – 320 grit
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NORTON BLAZE R980P CERAMIC ALUMINA

BEST FOR MILD AND CARBON STEEL, STAINLESS, COBALT, CHROME, INCONEL, TITANIUM

FEATURES & BENEFITS

- Cooler cutting Norton SG ceramic abrasive grain lasts 50% to 200% longer on mild and carbon steel, stainless, cobalt, chrome, Inconel and titanium versus aluminum oxide belts
- Cuts 20% faster than the current generation of grinding belts
- Longer belt life, better metal integrity, greater productivity; lowest total grinding costs
- Y-weight polyester waterproof cloth backing provides edge-fray resistance, and offers excellent body retention during use for more consistent grinding throughout belt life
- Durable resin bond system
- Significantly improved belt life due to better grain adhesion
- Advanced "supersize" grinding lubricant
- Cooler cutting during the life of the belt
- Improved part finish and integrity



NORTON SG R981 CERAMIC ALUMINA

EXCEPTIONAL PERFORMANCE, ESPECIALLY ON HARD-TO-GRIND ALLOYS

FEATURES & BENEFITS

- Norton SG ceramic abrasive provides exceptional life and value, especially on hard-to-grind alloys
- Grinding-aid enhanced for longer life, cooler cut
- Strong Y-weight polyester, waterproof cloth backing for improved grain adhesion, reduced edge-fray and better body retention, resulting in longer life and product consistency



NORTON BLUEFIRE R884P/R823P ZIRCONIA ALUMINA

BETTER CHOICE FOR HEAVIEST-PRESSURE APPLICATIONS

FEATURES & BENEFITS

- Premium self-sharpening zirconia alumina abrasive provides aggressive, rapid cut rate
- R884P – Durable Y-weight polyester, waterproof cloth backing has excellent grain adhesion, reduced edge-fray and better body retention, resulting in longer life and product consistency
- R823P – Strong X-weight waterproof polyester backing is more flexible than R884P and available in finer grit sizes
- R821P Smooth-running Y-weight cotton backing provides extended durability and even wear on coarser grit stock removal applications



NORTON R766 ALUMINUM OXIDE

GOOD CHOICE FOR DIFFICULT-TO-GRIND MATERIALS (ALUMINUM, BRASS, BRONZE, STAINLESS, CARBON STEEL, TITANIUM, ETC.)

FEATURES & BENEFITS

- Premium aluminum oxide abrasive blend is ideal when purchasing criteria is a good-performing, economically-priced, general-purpose belt
- Durable resin bond system provides good edge retention and life versus key competitors
- Y-weight waterproof polyester backing withstands light- to moderately-demanding applications and provides extended life on dry grinding applications

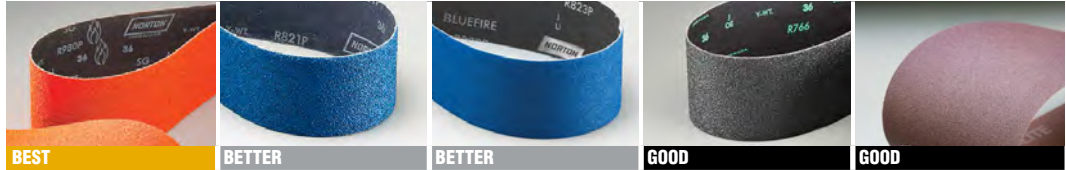
TECH TIP

Troubleshooting Guide

Problem	Correction
Loading	Decrease infeed pressure or belt speed
Shedding	Reduce applied pressure
	Use a less aggressive contact wheel
	Dress contact wheel if worn or damaged
	Use entire surface of belt

Problem	Correction
Belt breakage	Reduce belt tension
	Use less aggressive contact wheel
	Check tracking mechanism for belts tracking erratically

1" to 6" wide, 36" to 72" long



TIER:	BEST	BETTER	BETTER	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton
TRADENAME:	BLAZE R980P	BLUEFIRE R821P	BLUEFIRE R823P	R766	METALITE R228
ABRASIVE:	Ceramic Alumina	Zirconia Alumina	Zirconia Alumina	Aluminum Oxide Blend	Aluminum Oxide
BACKING:	Y-Weight Polyester	Y-Weight Cotton	X-Weight Polyester	Y-Weight Polyester	X-Weight Cotton
OTHER:	Supersize				

SIZE (W x L)	GRIT	STD. PKG.	PART #	PART #	PART #	PART #	PART #	
1 x 42	36	50	66254476825				78072791710	
	40	50	69957345887	78072726905		66623390041	78072720910	
	50	50	66254476826	78072726904		66623390042	78072720905	
	60	50	69957345486	78072726903	78072728596	66623334502	78072720900	
	80	50	66261041539	78072726902	78072728594	66623390043	78072720895	
	100	50	66261043462		78072728592		78072720890	
	120	50	66261038660		78072728590		78072720885	
	150	50			78072728588		78072720880	
	180	50			78072728586		78072720875	
	220	50			78072700001		78072720871	
	240	50					78072720870	
	320	50					78072720865	
	1-1/2 x 60	36	10	69957345578				78072721060
		40	10	63642595003				
50		10	69957345664			66623390044	78072787807	
60		10	69957345631			66623390045		
80		10	69957345579			66623390046		
100		10			78072765077		69957351736	
120		10	66261056493		78072726984			
180		10			78072758464			
220	10			78072708871				
2 x 48	24	10					78072726130	
	36	10	63642592057	78072727103		66623390047	78072721255	
	40	10	69957345193	78072727102		66623390048	78072721250	
	50	10	69957346716	78072727101		66623390049	78072721245	
	60	10	69957344423	78072727100	78072728621	66623390050	78072721240	
	80	10	69957345100	78072727099	78072728619	66623390051	78072721235	
	100	10	66261052522		78072728617		78072721230	
	120	10	66261052520		78072728615		78072721225	
	150	10			78072728613		78072723246	
	180	10			78072728611		78072721223	
	220	10			78072728609		78072763677	
	320	10					78072746387	
	2 x 60	24	10					66261054787
		36	10	69957345196			66623390052	78072701170
40		10	69957394425	78072727124		66623390053	78072721300	
50		10	69957346149			66623390054	78072762537	
60		10	69957344901	78072727122		66623390055	78072721290	
80		10	63642592574	78072727121		66623390056	78072721285	
100		10	66261052222		66261082976		78072721280	
120		10	66261042738		78072761958			
150		10					78072744018	
180		10			78072702695		78072720441	
220		10			78072706282		78072744020	
240		10					78072761862	
320		10					78072702825	
2 x 72		24	10	66254433969				
	36	10	69957345460	78072727147		66623390057	78072721335	
	40	10	69957346729	78072727146		66623390058	78072721332	
	50	10	69957344966	78072727145			78072784894	
	60	10	69957345157	78072727144	78072728645	66623390060	78072721325	
	80	10	69957344961	78072727142	78072728643	66623334237	78072721320	
	100	10	66261041897		66261025537		78072723235	
	120	10	66261044095		78072728639		78072721318	
	150	10			78072761770		78072761973	
	180	10			78072763853		78072718488	
	220	10			78072728633		78072765601	
	320	10					78072721308	

Continued

1" to 6" wide, 36" to 72" long (continued)



TIER:	BEST	BETTER	BETTER	BETTER	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton	Norton
TRADENAME:	BLAZE R980P	BLUEFIRE R821P	BLUEFIRE R823P	BLUEFIRE R884P	R766	METALITE R228
ABRASIVE:	Ceramic Alumina	Zirconia Alumina	Zirconia Alumina	Zirconia Alumina	Aluminum Oxide Blend	Aluminum Oxide
BACKING:	Y-Weight Polyester	Y-Weight Cotton	X-Weight Polyester	Y-Weight Polyester	Y-Weight Polyester	X-Weight Cotton
OTHER:	Supersize					

SIZE (W x L)	GRIT	STD. PKG.	PART #	PART #	PART #	PART #	PART #	PART #
2-1/2 x 48	36	10					66623390061	78072721540
	40	10					66623390062	
	50	10		78072727213			66623390063	78072721530
	60	10					66623390064	78072721525
	80	10					66623390065	78072721520
2-1/2 x 60	24	10				78072737759		78072708296
	36	10	69957344963	78072727235			66623390066	78072721610
	40	10	69957346523	78072727234			66623390067	78072721605
	50	10	69957345300	78072727233			66623390068	78072721600
	60	10	69957345002	78072727232	78072728692	78072721383	66623390069	78072721595
	80	10	69957346095	78072727231	78072728690		66623390070	78072721590
	100	10	66261041380		78072768991			78072721585
	120	10			78072728686			78072721580
	180	10			78072728682			78072721570
	220	10			78072778217			78072721565
4 x 36	36	10					66623390071	78072722110
	40	10						78072722105
	50	10		78072727475			66623390073	78072722100
	60	10			78072728827		66623390074	78072722095
	80	10		78072727473	78072728825		66623390075	78072722090
	100	10			78072728823			78072722085
	120	10			78072728821			78072722080
	150	10						78072722079
	180	10						78072722075
	240	10						78072722926
4 x 54	36	10					66623390076	78072722185
	40	10	63642594113				66623390077	78072722180
	50	10	66254469595				66623390078	78072722175
	60	10	66261063419	78072727518	78072725116		66623390079	78072722170
	80	10	69957345139		78072782996		66623390080	78072722165
	100	10						78072722160
	120	10	66261088705		78072728847			78072722155
	150	10						78072728381
	220	10						78072762536
								78072772342
4 x 60	24	10	66254461488					78072772342
	36	10	69957345298			78072737955		78072705189
	40	10	69957391732					78072744693
	50	10	69957346715					78072761630
	60	10	63642594485		78072774790			78072762861
	80	10	69957345099		78072765086			78072784685
	100	10						78072763161
	120	10	66254416188		78072766229			78072787840
	150	10						78072704878
	180	10			78072709820			78072728393
220	10			78072702594			78072790168	
4 x 72	36	10				78072725984		
6 x 48	36	10	69957345143	78072727698			66623390081	78072722590
	40	10		78072727697			66623390082	
	50	10		78072727696			66623390083	78072722580
	60	10	69957344422	78072727695*	78072728937*		66623390084	
	80	10		78072727694*	78072728935*		66623390085	78072722570
	100	10			78072728933*			78072722565
	120	10			78072728931*			78072722560
	150	10			78072770042			78072722555
	180	10						78072722550
	220	10						78072722546
	240	10						78072722545
	320	10						78072722543

* Std. Pkg. = 20 Belts
CONTINUED

1" to 6" wide, 36" to 72" long (continued)



TIER:	BEST	BETTER	BETTER	BETTER	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton	Norton
TRADENAME:	BLAZE R980P	BLUEFIRE R821P	BLUEFIRE R823P	BLUEFIRE R884P	R766	METALITE R228
ABRASIVE:	Ceramic Alumina	Zirconia Alumina	Zirconia Alumina	Zirconia Alumina	Aluminum Oxide Blend	Aluminum Oxide
BACKING:	Y-Weight Polyester	Y-Weight Cotton	X-Weight Polyester	Y-Weight Polyester	Y-Weight Polyester	X-Weight Cotton
OTHER:	Supersize					

SIZE (W x L)	GRIT	STD. PKG.	PART #	PART #	PART #	PART #	PART #	PART #
6 x 54	60	10				78072746982		
6 x 60	36	10					66623343751	78072722680
	40	10		78072727762			66623390086	78072722679
	60	10	69957345149	78072728957*			66623390087	78072722665*
	80	10			78072728955		66623390088	78072722660*
	100	10	66254477452					
120	10						78072763882	

* Std. Pkg. = 20 Belts

Belt Cleaning Stick



- This solid, rubber cleaning stick is designed to remove wood and other non-metallic materials that build up on belt surface during use.
- Apply it to the face of the belt, while running, to remove unwanted materials and prolong the overall life of the belt up to 10 times.

DESCRIPTION	STD. PKG.	PART #
1-3/8 x 1-3/8 x 6	10	07660701717

TIP

A light-bodied grease applied to a benchstand belt surface will reduce loading and greatly enhance the belt life and performance when grinding soft, malleable nonferrous materials such as aluminum, brass, bronze and copper.



FastTrack Belt Service



For non-stock belts, FastTrack Service offers all the benefits of an ISO 9001 quality manufacturer and the advantages of a coated abrasives express belt service. As the industry's leading producer of abrasive material and backings, our FastTrack service offers an extensive range of Norton made-to-order belts including Norton Blaze ceramic alumina, BlueFire zirconia alumina, and versatile aluminum oxide and silicon carbide belts.

Manufacturing Lead-times:

- Narrow belts (1/2" – 12" wide) two days
- Wide belts (14" – 52" wide) three days

Size Availability:

- Maximum width: 52"
- 1/2" and greater widths; 25" and greater lengths

Please see the FastTrack Service Made-to-Order Belts section of this catalog for complete details.

2" to 10" wide, over 70" long



TIER:	BEST	BEST	BETTER	BETTER	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton	Norton
TRADENAME:	BLAZE R980P	SG R981	BLUEFIRE R884P	BLUEFIRE R823P	R766	METALITE R228
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Zirconia Alumina	Zirconia Alumina	Aluminum Oxide Blend	Aluminum Oxide
BACKING:	Y-Weight Polyester	Y-Weight Polyester	Y-Weight Polyester	X-Weight Polyester	Y-Weight Polyester	X-Weight Cotton
OTHER:	Supersize	Supersize				

SIZE (W x L)	GRIT	STD. PKG.	PART #	PART #	PART #	PART #	PART #	PART #
2 x 132	36	10		78072753086	78072750016		66623347337	
	40	10			78072750015		66623390089	
	50	10		78072740771	78072750013		66623390090	
	60	10			78072750011		66623390091	78072721445
	80	10		78072701958	78072750008		66623390092	78072721440
	120	10				78072728662		
3 x 79	50	10	66261090276					
	60	10			78072748280			
3 x 90	36	10	69957346319					78072785831
3 x 132	24	10			78072750140			
	36	10	69957344710	78072753087	78072750138 RR		66623390093	78072721900
	36	10			78072750139 L			
	40	10	69957344964	78072701614				
	50	10	69957344763	78072703709	78072750135			78072721890
	60	10	69957344958			78072728794	66623390096	78072721885
	80	10	69957344764			78072728792	66623390097	78072721880
	100	10				78072728790		
	120	10				78072728789		78072721870
	150	10						78072721865
4 x 79	36	10		66261022622				78072721860
	40	10			78072774955			
	80	10			78072731327			
					78072768679			
4 x 100	36	10						
4 x 132	24	10			78072750289			
	36	10	69957343852	78072739662	78072750287		66623326093	
	40	10					66623390098	
	60	10			78072750281		66623335394	
	80	10			78072750279		66623343488	78072722385
	120	10						78072722375
6 x 78-3/4	40	10			78072725150			
6 x 79	36	10			78072738105			
	40	10						
	80	10			78072779322			
8 x 107	36	10					66623390099	78072722795
	50	10					66623390100	78072749887
	60	10					66623347341	78072722780*
	80	10					66623329182	78072722775*
	100	10						
10 x 70-1/2	36	10					66623347342	78072722840
	40	10					66623347343	78072722835
	50	10					66623347344	78072722830
	60	10					66623347345	78072722825
	80	10					66623347346	78072722820



A small selection of stock products in popular sizes are available for wide belt woodworking and metalworking applications.

Applications: Metalworking wide belts are used for plate dimensioning, slag grinding, machining, deburring, and other general metalworking applications. They are usually cloth and are closed coat.

Cloth woodworking wide belts are used for rough stock removal and dimensioning. Paper woodworking belts are used to upgrade the finish on furniture and other wood components.

Size Range: Stock: 25" – 52" wide, 48" to 103" long

Grit Range: Stock: 36 – 220

Abrasive Grain: Zirconia Alumina, Aluminum Oxide

Availability: Due to the wide varieties of machines and applications, the majority of wide belts are non-stock. Our FastTrack belt service is available on the majority of products with 3-day lead-time on orders up to two cases quantity.

METALWORKING CLOTH BELT RECOMMENDATION GUIDE/CROSS REFERENCE

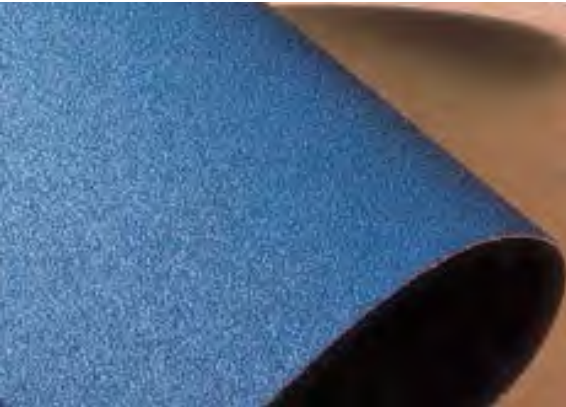
		TOTAL PERFORMANCE ←					→ INITIAL PRICE		
		BEST Highest Productivity Lowest Total Cost		BETTER Excellent Blend of Performance & Price			GOOD Consistent Performance; Low Initial Price		
		H-wt. Polyester	Y-wt. Polyester	H-wt. Polyester	Y-wt. Polyester	X-wt. Polyester	Y-wt. Polyester	X-wt. Polyester	X-wt. Cotton
NORTON	Blaze	Blaze		BlueFire	BlueFire	BlueFire	Metalite	Metalite	Metalite
	R940P	R980P		R840P	R887P/R884P	R823P	R247	R249	R228
MERIT		SY965		SY695	SX695		SY395	SX395	KX375
3M	963G,H	977F, 967F		577F, 777F			361F	353F	241D, 341D
Ekamant				UZA0X	UZA0X		UA0X	UA0X	MKX, RKX
Hermes	CB441Z	CR456		SB488Y OP	RB484TY	RB486	RB376TY	RB376TY	RB346MX
Klingspor		CS610YY		CS414YY	CS411Y	CS411Y	CS412Y	CS412Y	CS310X
SIA		C888 DP		2800, 2803			2982		2920, 2912
VSM	SK770X, SK847Y,	SK840X		KK717Y	KK716Y	KK715X	KK711Y	KK711X	KK511X

WOODWORKING CLOTH BELT RECOMMENDATION GUIDE/CROSS REFERENCE

		TOTAL PERFORMANCE ←				→ INITIAL PRICE		
		BEST Highest Productivity; Lowest Total Cost		BETTER Excellent Blend of Performance & Price		GOOD Consistent Performance; Low Initial Price		
		Y-wt. Cotton	F-wt. Paper	Y-wt. Cotton	Y-wt. Cotton	X-wt. Cotton	F-wt. Paper	F-wt. Paper
		Dust-Less	Dust-Less		Dust-Less		Dust-Less	Dust-Less
NORTON	Norton SG	Norton SG		Bluefire	Metalite	Metalite		
	R963	H975		R831	R216	R215	H295	H275
MERIT				KY685		KX395	P55F	P55FOP
3M	970DZ	961UZ		777F	240D, 248D, 370DZ	240DZ, 340D	260UZ	241
Ekamant						PKX, RKX		PKFO, APKFO
Hermes		CB115		RB484TY, RB346MX	RB316YOP, RB372YOP	RB316XOP	BW112	BW114
Klingspor				CS414Y, SMT624	CS412, CS311Y	CS3110C	PS26	PS20
SIA	2829	1919		2803, 2820, 2829	2918, 2920, 2928	2928, 2920	1919FO	1939
VSM				KK716X	KK711Y, KK524Y	KK504X	KK508E	KP709

NORTON BLUEFIRE R884P/R831/R823P Z/A CLOTH

BETTER CHOICE FOR ALL METAL AND WOOD APPLICATIONS DUE TO THE CUT RATE AND LIFE OF THE PROPRIETARY NORTON BLUEFIRE GRAIN



FEATURES

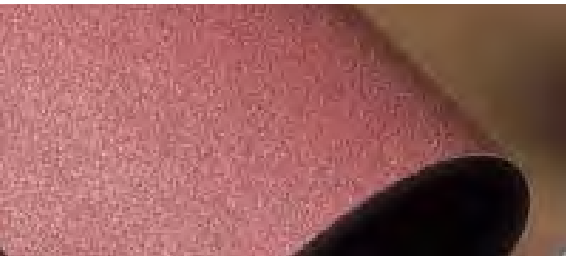
- Newest generation, patented self-sharpening zirconia alumina abrasive
- R884P – Durable Y-weight polyester, waterproof cloth backing
- R823P – Strong X-weight polyester, waterproof cloth backing
- R831 – Y-weight cotton cloth backing

BENEFITS

- Aggressive cut and 30% longer life than competitive zirconia alumina
- Long life on high-pressure, dry or wet, heavy-duty metal applications
- Moderate flexibility, dry or wet, fine grit applications
- Durable open coat cotton belt designed for excellent stock removal on wood with minimal loading

NORTON METALITE R215 ALUMINUM OXIDE CLOTH

GOOD CHOICE FOR ABRASIVE PLANING AND DIMENSIONING OF GLUED-UP STOCK AND BANDED PARTICLEBOARD



FEATURES

- Strong X-weight cotton backing
- Open coat design

BENEFITS

- Aggressive cutting, resistant to heat
- Resists loading
- Value product for wood and soft metals

TECH TIP

36" wide belts can be used on machines that normally use 37" wide belts.



FastTrack Belt Service



For non-stock belts, FastTrack Service offers all the benefits of an ISO 9001 quality manufacturer and the advantages of a coated abrasives express belt service. As the industry's leading producer of abrasive material and backings, our FastTrack service offers an extensive range of Norton made-to-order belts including Norton Blaze ceramic alumina, BlueFire zirconia alumina, and versatile aluminum oxide and silicon carbide belts.

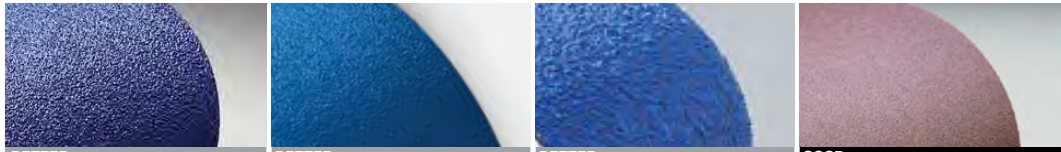
Manufacturing Lead-times:

- Narrow belts: (1/2" – 12" wide) two days
- Wide belts (14" – 52" wide) three days

Size Availability:

- Maximum width: 52"
- 1/2" and greater widths; 25" and greater lengths

Please see the FastTrack Service Made-to-Order Belts section of this catalog for complete details.



TIER:	BETTER	BETTER	BETTER	GOOD
BRAND:	Norton	Norton	Norton	Norton
TRADENAME::	BLUEFIRE R884P	BLUEFIRE R823P	BLUEFIRE R831	METALITE R215
ABRASIVE:	Zirconia Alumina	Zirconia Alumina	Zirconia Alumina	Aluminum Oxide
BACKING:	Y-Weight Polyester Cloth	X-Weight Polyester Cloth	Y-Weight Cotton Cloth	X-Weight Cotton Cloth
JOINT/FLEX:	Plyweld, RR	Plyweld, RR	Plyweld, RR	Plyweld, RR

SIZE (W x L)	GRIT	STD. PKG.	PART #	PART #	PART #	PART #
25 x 48	80	3		69957344781		
25 x 60	80	3		69957328117		
	120	5		69957328115		
25 x 75	120	5		69957344791		
36 x 75	36	2	69957350934			
	60	3	69957350931			
	120	5		69957329014		
	180	5		69957344869		
37 x 60	50	3	69957306219			
	80	3		69957329019		69957325709
	100	5		69957328103		69957325708
	120	5		69957329018		69957325707
	150	5		69957328102		69957302955
	180	5		69957328101		
	220	5		69957328100		
37 x 75	36	2	69957350959			
	50	3	69957305107			
	80	3	69957350955			69957325957
	100	5				69957323880
	120	5		69957307358		69957325760
	150	5				69957305737
50 x 103	80	3				
52 x 75	120	5		69957313510	69957328383	



FASTTRACK SERVICE MADE-TO-ORDER BELTS



For many non-stock belts, our FastTrack belt service offers all the benefits of an ISO 9001 quality manufacturer and the advantages of a coated abrasives express belt service. As the industry leader of abrasive belts, our FastTrack belt service has an extensive range of Norton made-to-order belts including Norton Blaze ceramic alumina, BlueFire zirconia alumina, versatile aluminum oxide, and silicon carbide belts.

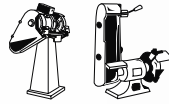
Manufacturing Lead-times:

- Narrow belts (1/2" – 12" wide): two days
- Wide belts (14" – 52" wide): three days

Size Availability:

- Maximum width: 52"
- 1/2" and greater widths; 25" and greater lengths

Please see the FastTrack belt service chart below and product listing on the next page for complete details.



FASTTRACK AVAILABILITY AND LEAD-TIME INFORMATION

WIDTH	GRIT SIZE	MINIMUM ORDER QUANTITY	CASE QUANTITY	MAXIMUM ORDER QUANTITY (EQUALS 2 CASES)	CONVERSION LEAD-TIMES
Narrow Belts					
1/2" through 1"	All	50	200	400	2
Over 1" through 5"	All	10	50	100	2
Over 5" through 9"	All	10	20	40	2
Over 9" through 14"	All	10	10	20	2
Wide Belts					
Over 14" through 20"	All	5	10	20	3
Over 20" through 52"	36 & coarser	2	2	4	3
Over 20" through 52"	40-80	3	3	6	3
Over 20" through 52"	100 & finer	5	5	10	3

HOW TO PLACE A FASTTRACK BELT ORDER

- Check the FastTrack belt availability
- Include a full description of belt: quantity, size, Norton CAP code, and grit size
- Send order electronically, fax, or phone to customer service
- When ordering a belt that does not have an existing part number, please call Customer Service to expedite part number creation



FASTTRACK SERVICE MADE-TO-ORDER BELTS

BELT SPECIFICATIONS AND AVAILABILITY

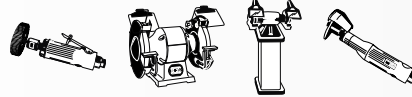
TIER	PRODUCT CAP CODE	SHAPE AVAILABILITY	GRIT SIZE	ABRASIVE GRAIN	BACKING	APPLICATIONS	
Metalworking							
Norton							
Best	R980P	Narrow, Wide	24-120	Norton Blaze Ceramic Alumina	Y-wt. Polyester	Latest-generation Norton SG grain, supersized and designed for high-performance grinding on stainless and other alloys	
Best	R984	Narrow, Wide	36-120	Norton SG Ceramic Alumina	Y-wt. Polyester	Norton SG grain for medium-pressure grinding and finishing heat-sensitive alloys	
NEW	Best	R983	Narrow	P36-P120	Norton Red Heat Ceramic Alumina	Y-wt. Plus	P-graded ceramic alumina abrasive with lubricating supersize coat; engineered for maximum productivity on mild carbon steel, ferrous metal, and cast iron applications
Better	R884P	Narrow, Wide	24, 36-80	Norton BlueFire Zirconia Alumina	Y-wt. Polyester	High-performance zirconia alumina grain designed for medium- to high-pressure grinding	
Better	R887D	Narrow, Wide	24, 36-120	Norton BlueFire Zirconia Alumina	Y-wt. Polyester	High-performance zirconia alumina grain, supersized and designed for medium- to high-pressure grinding of heat-sensitive alloys	
Better	R823P	Narrow, Wide	60-220	Norton BlueFire Zirconia Alumina	X-wt. Polyester	High-performance zirconia alumina grain on lighter backing designed for light to medium grinding	
Good	R766	Narrow	P24-80	Aluminum Oxide Blend	Y-wt. Polyester	Premium aluminum oxide blend product designed for a variety of applications including soft metals to hard-to-grind stainless and carbon steel	
Good	R766X	Narrow, Wide	P60-P400	Aluminum Oxide Blend	X-wt. Polyester	Quality, P-graded aluminum oxide and broad grit range for stock removal to finer finishing	
Good	MX240	Narrow, Wide	P80-P150	Aluminum Oxide	X-wt. Poly/Cotton	P-graded, heat-treated aluminum oxide X-weight cloth with strong, but flexible, cotton/polyester backing making it an ideal multi-purpose product	
Good	R245	Narrow	P80-P240, P320, P400	Aluminum Oxide	J-wt. Polyester	Aluminum oxide on flexible, lightweight polyester backing for moderate- to light- pressure applications on mild steel	
Good	KF376	Narrow	P80-P320, P400, P600	Aluminum Oxide	J-wt. Cotton	P-graded, heat-treated aluminum oxide with ceramic coating on a very flexible backing for use wherever flexibility and conformability are needed	
Good	R445	Narrow	60-220	Silicon Carbide	X-wt. Polyester	Sharp, silicon carbide grain on medium polyester backing for grinding very hard materials – glass, stone, solid surface	
Good	U243	Narrow, Wide to 24"	X80, X65, X45, X30, X22, X16	NORaX Aluminum Oxide	J-wt. Cotton	High-performance, multi-layered NORaX grain on very flexible backing for dry polishing applications	

TIER	PRODUCT CAP CODE	SHAPE AVAILABILITY	GRIT SIZE	ABRASIVE GRAIN	BACKING	APPLICATIONS
Woodworking						
Norton						
Best	R963	Narrow, Wide	24-60, P80 100-150	Norton SG Ceramic Alumina	Y-wt. Polyester	Norton SG ceramic alumina grain with anti-static coating for forest product applications (MDF, particleboard, plywood)
Best	R955	Narrow	P36-P120	Norton Red Heat Ceramic Alumina	Y-wt. Cotton	100% ceramic alumina abrasive with Y-weight cloth backing for dimensioning, intermediate sanding of wood
Better	R831	Narrow, Wide	24, 36-120	Norton BlueFire Zirconia Alumina	Y-wt. Cotton	Norton BlueFire open-coat product recommended for dry low-pressure applications or where loading is a problem
Good	R215	Narrow, Wide	50-180	Aluminum Oxide	X-wt. Cotton	Initial starting specification for woodworking applications where loading is a problem, and initial cost a primary concern
Good	R490	Narrow, Wide	P36-P150	Silicon Carbide	Y-wt. Polyester	Anti-static product for forest product applications (MDF, particle board, plywood) where loading is an issue
Good	R422	Narrow	50-120	Silicon Carbide	X-wt. Cotton	Initial starting specification for woodworking applications where loading is not an issue
Best	H975	Narrow, Wide	60-220	Norton Red Heat Ceramic Alumina	F-wt. Paper	Ceramic alumina grain, antistatic coating, and open coat; the best choice for applications where loading is a problem (soft woods, etc.)
Better	H831	Wide	24,36-120	Norton BlueFire Zirconia Alumina	F-wt. Paper	Durable zirconia alumina grain, antistatic coating, and open coat; the better choice for applications where loading is a problem (soft woods, etc.)
Good	H275B	Narrow, Wide	P60-P220	Aluminum Oxide	F-wt. Paper	Quality aluminum oxide grain, antistatic coating, and open coat make these an economical choice for all heavy-weight paper belt jobs
Better	H475	Narrow, Wide	P120-P400	Norton Onyx Silicon Carbide	F-wt. Paper	Sharp silicon carbide and antistatic coating create finer finishes on hard materials and veneers where finish is critical

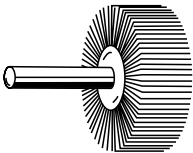




Flap wheels are an ideal choice for a wide variety of blending, deburring and finishing applications common in the metal fabrication, welding and polishing industries. Flap wheels are conformable to intricate shapes and contours. Designed to deliver a consistent finish with a uniform rate of cut, flap wheels wear away, continually exposing fresh abrasives.

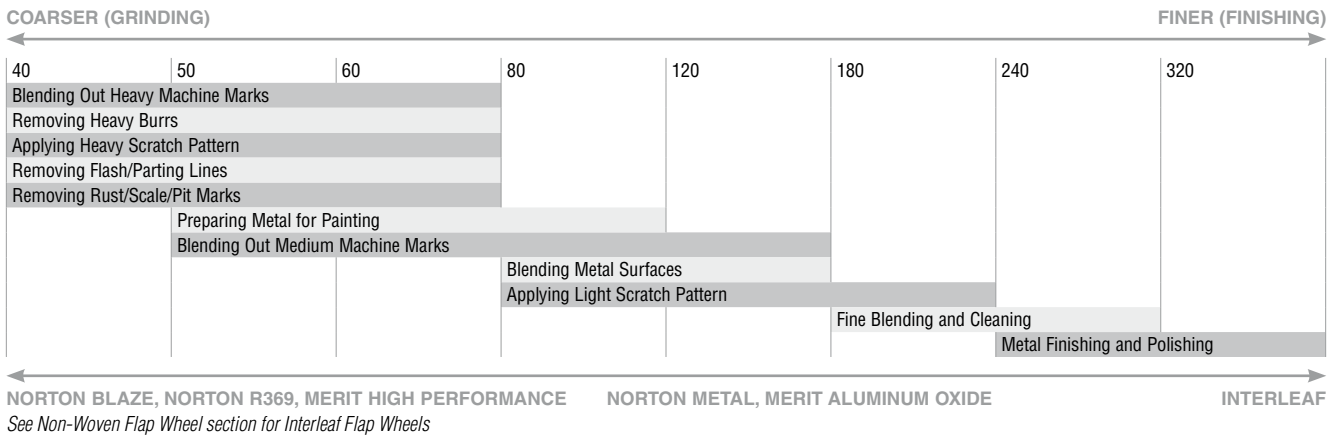
- Applications: Used for a wide range of metal fabrication and welding applications including stock removal, blending, deburring, cleaning, finishing, and polishing
- Size Range: Flap wheels with mounted steel shanks: 3/8" - 3" diameter
Flap wheels with mounted 1/4"-20 thread: 1" - 3" diameter
Flap wheels with arbor holes: 3" - 16" diameter
- Grit Range: 40 - 320
- Abrasive Grain: Ceramic Alumina, Aluminum Oxide Blend, Aluminum Oxide
- Machine Used:



SHAPE RECOMMENDATION GUIDE

Shape	Description/Application
	<p>Flap Wheels with Mounted Steel Shanks</p> <p>Wheels are designed with a 1/8" or 1/4" steel shank as an integral part of each wheel. These shanks run through the wheel creating better balance, a reduction of chatter, and reduced operator fatigue. They also permit quick changes on air tools when using other abrasive products.</p>
	<p>Flap Wheels with Mounted 1/4-20 Thread</p> <p>Wheels are designed with a 1/4"-20 thread and flange as an integral part of the wheel. These threads facilitate the quickest changes on air tools using flap wheels exclusively, as there are no special tools needed to change the flap wheel. Also allow extended reach with accessory mandrels.</p>
	<p>Flap Wheels with Arbor Holes</p> <p>For use on larger portable and fixed-base tools where the wheel must fit on an existing arbor.</p>

APPLICATION/GRIT RECOMMENDATION GUIDE



NORTON BLAZE R920 CERAMIC ALUMINA

BEST CHOICE FOR HARD-TO-GRIND MATERIALS, INCLUDING SUPERALLOYS (COBALT, INCONEL, AND TITANIUM) AND STAINLESS STEEL

FEATURES & BENEFITS

- See significantly faster, coolest, burn-free grinding on the toughest jobs from our next-generation of sharp, ceramic abrasive grains and advanced grinding aid lubricant



NORTON R369 ALUMINUM OXIDE

BETTER CHOICE FOR STAINLESS AND CARBON STEEL, AND ALUMINUM, BRASS AND BRONZE

FEATURES & BENEFITS

- Cut cooler and smoother, with our versatile, P-graded premium aluminum oxide blend, durable resin bond system, and heavy cotton backing



MERIT HIGH PERFORMANCE ALUMINUM OXIDE BLEND

BETTER CHOICE FOR MORE DURABLE FLAP WHEEL APPLICATIONS WHERE AGGRESSIVE CUT AND SUPERIOR LIFE ARE REQUIRED

FEATURES

- Long-lasting aluminum oxide abrasive grain blend
- Heavy cotton backing

BENEFITS

- Aggressive cut and 2 to 3 times longer life
- Extended durability for added life and reduced edge wear



NORTON METAL R207 ALUMINUM OXIDE

GOOD CHOICE WHEN INITIAL PRICE IS A KEY PURCHASING CRITERIA

FEATURES & BENEFITS

- Our solid-performance aluminum oxide grain makes these flap wheels a good starting specification with consistent performance for small jobs or anywhere performance need not be measured



MERIT ALUMINUM OXIDE

GOOD CHOICE WHEN INITIAL PRICE IS THE MAIN CONSIDERATION

FEATURES

- Quality aluminum oxide abrasive
- Engineered, low-cost cotton backing
- Low initial price point

BENEFITS

- Good cut rate and life
- Longer life and wear resistance
- Best starting specification for end-user unable to measure total performance





Micro-Mini Flap Wheels with 1/8" Mounted Steel Shanks

- The smallest flap wheels, ranging from 3/8" to 1-3/16" diameter, mounted on a 1/8" diameter steel shank
- Provide fast polishing and light deburring of internal workpieces with holes or grooves as small as 1/2"



TIER:	BETTER	GOOD
BRAND:	Norton	Merit
TRADENAME:	R369	ALUMINUM OXIDE
ABRASIVE:	Premium Aluminum Oxide Blend	Aluminum Oxide
OTHER:	P-graded	



TIER:	BETTER	GOOD
BRAND:	Norton	Merit
TRADENAME:	R369	ALUMINUM OXIDE
ABRASIVE:	Premium Aluminum Oxide Blend	Aluminum Oxide
OTHER:	P-graded	

SIZE (D x W x SK.)	GRIT	MAX. RPM	STD. PKG.	PART #	PART #
3/8 x 3/8 x 1/8	60	40,000	10	66623399223	08834137470
	80	40,000	10	66623399224	08834137471
	120	40,000	10	66623399225	08834137472
	180	40,000	10		08834137473
	240	40,000	10		08834137474
5/8 x 5/8 x 1/8	60	37,000	10	66623399229	08834137480
	80	37,000	10	66623399230	08834137481
	120	37,000	10	66623399231	08834137482
	180	37,000	10		08834137483
	240	37,000	10		08834137484
5/8 x 3/4 x 1/8	80	37,000	10	66623399232	08834137541
	120	37,000	10		08834137542
	180	37,000	10		08834137543
	240	37,000	10		08834137544
	320	37,000	10		08834137545
3/4 x 3/16 x 1/8	60	35,000	10		08834137550
	80	35,000	10		08834137551
	120	35,000	10		08834137552
	180	35,000	10		08834137553
	240	35,000	10		08834137554
3/4 x 3/8 x 1/8	60	35,000	10	66623399234	08834137560
	80	35,000	10	66623399235	08834137561
	120	35,000	10	66623399236	08834137562
	180	35,000	10		08834137563
	240	35,000	10		08834137564
3/4 x 1/2 x 1/8	60	35,000	10		08834137570
	80	35,000	10		08834137571
	120	35,000	10		08834137572
	180	35,000	10		08834137573
	240	35,000	10		08834137574
320	35,000	10		08834137575	

SIZE (D x W x SK.)	GRIT	MAX. RPM	STD. PKG.	PART #
3/4 x 5/8 x 1/8	60	35,000	10	08834137580
	80	35,000	10	08834137581
	120	35,000	10	08834137582
	180	35,000	10	08834137583
	240	35,000	10	08834137584
3/4 x 3/4 x 1/8	60	35,000	10	08834137590
	80	35,000	10	66623399240
	120	35,000	10	66623399241
	180	35,000	10	66623399242
	240	35,000	10	08834137594
1-3/16 x 1/8 x 1/8	60	35,000	10	08834137595
	80	30,000	10	08834137491
	120	35,000	10	08834137492
	180	35,000	10	08834137493
	320	35,000	10	08834137495
1-3/16 x 3/16 x 1/8	60	30,000	10	08834137508
	80	35,000	10	08834137501
	120	35,000	10	08834137502
	180	35,000	10	08834137503
	240	35,000	10	08834137504
1-3/16 x 3/8 x 1/8	60	35,000	10	08834137505
	80	30,000	10	08834137511
	120	35,000	10	08834137512
	180	35,000	10	08834137513
	240	35,000	10	08834137514
320	35,000	10	08834137515	

MERIT STOCK/NON-STOCK STATUS: Some Merit part numbers are non-stock. Ask your Norton/Merit representative for stock/MTO status.



Micro-Mini Test Kit "MMC"

- Part # 08834131493
- Includes five wheels, 3/8" to 1-3/16" diameter in various grits, mounted on a 1/8" diameter hardened steel shank
- The "MMC" kit is ideal for fast polishing and light deburring of internal holes or grooves as small as 1/2"



Mini Flap Wheels with 1/4" Mounted Steel Shanks

- Small flap wheels, ranging from 1" to 3" diameter, mounted on a 1/4" diameter steel shank
- Very durable, long-lasting mini flap wheels for demanding, heavy stock removal applications



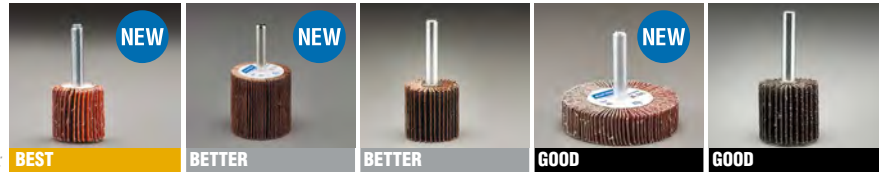
TIER:	BEST	BETTER	BETTER	GOOD	GOOD
BRAND:	Norton	Norton	Merit	Norton	Merit
TRADENAME:	BLAZE R920	R369	HIGH PERFORMANCE	METAL R207	ALUMINUM OXIDE
ABRASIVE:	Ceramic Alumina	Premium Aluminum Oxide Blend	Aluminum Oxide Blend	Aluminum Oxide	Aluminum Oxide
OTHER:	P-Graded	P-Graded		P-Graded	

SIZE (D x W x SK.)	GRIT	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #	PART #
3/4 x 5/8 x 1/4	60	35,000	10		66623399237			
	80	35,000	10		66623399238			
	120	35,000	10		66623399239			
3/4 x 3/4 x 1/4	60	35,000	10		66623399243			
	80	35,000	10		66623399244			
	120	35,000	10		66623399245			
1 x 1/2 x 1/4	80	30,000	10					08834149801
	120	30,000	10					08834149802
	180	30,000	10					
1 x 5/8 x 1/4	40	30,000	10			08834137105		
	60	30,000	10		66623399074	08834137100	63642502576	
	80	30,000	10		66623399075	08834137101	63642502577	
	120	30,000	10		66623399076	08834137102	63642502578	
	240	30,000	10			08834131536		
1 x 1 x 1/4	40	30,000	10			08834137104		
	50	30,000	10		66623399077	08834131259		08834149803
	60	30,000	10			08834137309		
	80	30,000	10	66261151170	69957394176	08834137310	63642502580	08834149804
	120	30,000	10	66261151171	69957394181	08834137311	63642502581	08834149805
	180	30,000	10	66261151172	69957394182	08834137312	63642502582	08834149806
	240	30,000	10		66623399078	08834137313		08834149807
1-3/8 x 5/8 x 1/4	60	30,000	10		66623399079	08834137114		
	80	30,000	10		66623399080	08834137315		
	120	30,000	10		66623399247	08834137320	63642502584	
	180	30,000	10		66623399248	08834137321	63642502585	
	240	30,000	10			08834137322		
1-1/2 x 1/2 x 1/4	60	25,000	10					08834149810
	80	25,000	10					08834149811
	120	25,000	10					
1-1/2 x 1 x 1/4	40	25,000	10		66623399087	08834135140		
	60	25,000	10		66623399088	08834137340	63642502592	08834149816
	80	25,000	10		66623399089	08834137141	63642502593	08834149817
	120	25,000	10		66623399090	08834137142	63642502594	08834149818
	240	25,000	10		66623399249	08834137343		
1-1/2 x 1-1/2 x 1/4	40	25,000	10		66623399250	08834132101		
	60	25,000	10		66623399251	08834130642		
	80	25,000	10		66623399252	08834130643		
	120	25,000	10		66623399253	08834130644		
	180	25,000	10		66623399254	08834130641		
2 x 1/2 x 1/4	60	25,000	10			08834130695		
	80	25,000	10		66623399255		63642502596	08834149821
	120	25,000	10		66623399256			08834149822
	180	25,000	10		66623399257			08834149823
2 x 3/4 x 1/4	40	25,000	10					
	60	25,000	10					
	80	25,000	10					
	120	25,000	10					
2 x 3/4 x 1/4	40	25,000	10			08834137158		
	60	25,000	10			08834137160		
	80	25,000	10			08834137161		
	180	25,000	10			08834137162		
2 x 3/4 x 1/4	40	25,000	10			08834137163		
	60	25,000	10					
	80	25,000	10					
	180	25,000	10					

MERIT STOCK/NON-STOCK STATUS: Some Merit part numbers are non-stock. Ask your Norton/Merit representative for stock/MTO status.

Continued

Mini Flap Wheels with 1/4" Mounted Steel Shanks (continued)



TIER:	BEST	BETTER	BETTER	GOOD	GOOD
BRAND:	Norton	Norton	Merit	Norton	Merit
TRADENAME:	BLAZE R920	R369	HIGH PERFORMANCE	METAL R207	ALUMINUM OXIDE
ABRASIVE:	Ceramic Alumina	Premium Aluminum Oxide Blend	Aluminum Oxide Blend	Aluminum Oxide	Aluminum Oxide
OTHER:	P-Graded	P-Graded		P-Graded	

SIZE (D x W x SK.)	GRIT	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #	PART #
2 x 1 x 1/4	40	25,000	10		66623399094	08834137377		08834149824
	50	25,000	10			08834137169		
	60	25,000	10	66261151173	69957394183	08834137370	63642502600	08834149825
	80	25,000	10	66261151174	69957394184	08834137371	63642502601	08834149826
	120	25,000	10	66261151175	69957394185	08834137372	63642502602	08834149827
	180	25,000	10		66623399095	08834137373		08834149828
2 x 1-1/2 x 1/4	240	25,000	10		66623399096	08834137374		
	320	25,000	10		66623399097	08834137375		
	40	25,000	10			08834137183		
	60	25,000	10		66623399098	08834137380		
	80	25,000	10		66623399099	08834137381		
	120	25,000	10		66623399100	08834137382		
2-1/2 x 1/2 x 1/4	180	25,000	10			08834137383		
	80	20,000	10		66623399259			
2-1/2 x 1 x 1/4	80	20,000	10		66623399260			
	40	20,000	10			08834137408		
	60	20,000	10		66623399262	08834137410	63642502608	
	80	20,000	10		66623399263	08834137411	63642502609	
	120	20,000	10		66623399264	08834137412	63642502610	
	180	20,000	10			08834137413		
2-1/2 x 1-1/2 x 1/4	240	20,000	10			08834137633		
	320	20,000	10			08834137415		
	60	20,000	10			08834137420		
	80	20,000	10			08834137421		
	120	20,000	10			08834137422		
	180	20,000	10					
3 x 1/2 x 1/4	60	20,000	10		66623399265		63642502612	08834149834
	80	20,000	10		66623399266		63642502613	08834149835
	120	20,000	10		66623399268		63642502614	
3 x 3/4 x 1/4	60	20,000	10			08834137440		
	80	20,000	10			08834137441		
3 x 1 x 1/4	40	20,000	10		66623399104	08834137456		08834149836
	60	20,000	10	66261151176	69957394186	08834137450	63642502620	08834149837
	80	20,000	10	66261151177	69957394187	08834137451	63642502621	08834149838
	120	20,000	10	66261151178	69957394188	08834137252	63642502622	08834149839
	180	20,000	10		66623399105	08834137253		08834149840
	240	20,000	10		66623399106	08834135339		
3 x 2 x 1/4	320	20,000	10		66623399107	08834135341		
	40	12,000	10			08834137460		
	60	12,000	10		66623399108	08834137260		
	80	12,000	10		66623399109	08834137261		
	120	12,000	10		66623399110	08834137262		
	180	12,000	10			08834137263		

MERIT STOCK/NON-STOCK STATUS: Some Merit part numbers are non-stock. Ask your Norton/Merit representative for stock/MTO status.



Merit Mini 1/4" Steel Shank Test Kit "CMM"

- Part # 08834138004
- Includes ten wheels, 1" to 3" diameter in various grits mounted on a 1/4" diameter hardened steel shank



Mini Flap Wheels with 1/4"-20 Thread

- Mini flap wheels ranging from 1" to 3" diameter, mounted on a 14-20 thread that allows you to quickly spin the wheels on and off with no tools
- Designed for polishing and finishing intricate surfaces; cost-effective replacement for brushes, rubber points, and felt bobs



TIER:	BETTER	BETTER	GOOD
BRAND:	Norton	Merit	Norton
TRADENAME:	R369	HIGH PERFORMANCE	METAL R207
ABRASIVE:	Premium Aluminum Oxide Blend	Aluminum Oxide Blend	Aluminum Oxide
OTHER:	P-Graded		P-Graded

SIZE (D x W x THD.)	GRIT	MAX. RPM	STD. PKG.	PART #	PART #	PART #
1 x 5/8 x 1/4-20	60	30,000	10	66623399111	08834131001	63642502624
	80	30,000	10	66623399112	08834131002	63642502625
	120	30,000	10	66623399113	08834131003	63642502626
1 x 1 x 1/4-20	40	30,000	10		08834131027	
	60	30,000	10	69957394189	08834131008	63642502628
	80	30,000	10	69957394190	08834131009	63642502629
	120	30,000	10	69957394191	08834131010	63642502630
	180	30,000	10	66623399269	08834131011	
	240	30,000	10		08834131012	
1-3/8 x 5/8 x 1/4-20	60	30,000	10		08834132001	63642502632
	80	30,000	10	66623399271	08834132002	63642502633
	120	30,000	10		08834132003	63642502634
1-1/2 x 1 x 1/4-20	80	25,000	10	66623399274		
	120	25,000	10	66623399275		
1-5/8 x 1 x 1/4-20	40	25,000	10		08834132051	
	60	25,000	10		08834132015	63642502638
	80	25,000	10		08834132016	63642502639
	120	25,000	10		08834132017	63642502640
	180	25,000	10		08834132018	
	320	25,000	10		08834132020	
2 x 1/2 x 1/4-20	60	25,000	10	66623399276		63642502642
	80	25,000	10	66623399277		63642502643
	120	25,000	10			63642502644
2 x 3/4 x 1/4-20	60	25,000	10		08834133008	
	80	25,000	10		08834133009	
	120	25,000	10		08834133010	
	180	25,000	10		08834133011	
	240	25,000	10		08834133018	
2 x 1 x 1/4-20	40	25,000	10		08834133044	
	60	25,000	10	69957394192	08834133015	63642502646
	80	25,000	10	69957394193	08834133016	63642502647
	120	25,000	10	69957394194	08834133017	63642502648
	180	25,000	10		08834133018	
	240	25,000	10		08834133019	
	320	25,000	10		08834133020	
2 x 1-1/2 x 1/4-20	60	25,000	10		08834135201	
	80	25,000	10		08834135202	
	120	25,000	10		08834135203	
	180	25,000	10		08834135204	

MERIT STOCK/NON-STOCK STATUS: Some Merit part numbers are non-stock. Ask your Norton/Merit representative for stock/MTO status.

For adapters for flap wheels with 1/4"-20 thread, see the end of this section

Continued

Mini Flap Wheels with 1/4"-20 Thread (continued)



TIER:	BETTER	BETTER	GOOD
BRAND:	Norton	Merit	Norton
TRADENAME:	R369	HIGH PERFORMANCE	METAL R207
ABRASIVE:	Premium Aluminum Oxide Blend	Aluminum Oxide Blend	Aluminum Oxide
OTHER:	P-Graded		P-Graded

SIZE (D x W x THD.)	GRIT	MAX. RPM	STD. PKG.	PART #	PART #	PART #
2-1/2 x 1 x 1/4-20	40	20,000	10		08834134061	
	60	20,000	10		08834134022	63642502654
	80	20,000	10		08834134023	
	120	20,000	10		08834134024	63642502656
	180	20,000	10		08834134025	
3 x 1/2 x 1/4-20	80	20,000	10			63642502659
	120	20,000	10			63642502660
3 x 3/4 x 1/4-20	80	20,000	10		08834135009	
	120	20,000	10		08834135010	
3 x 1 x 1/4-20	40	20,000	10		08834135230	
	60	20,000	10	69957394195	08834135015	63642502664
	80	20,000	10	69957394196	08834135016	63642502665
	120	20,000	10	69957394197	08834135017	63642502666
	180	20,000	10	66623399281	08834135018	
	240	20,000	10		08834135019	

MERIT STOCK/NON-STOCK STATUS: Some Merit part numbers are non-stock. Ask your Norton/Merit representative for stock/MTO status. For adapters for flap wheels with 1/4"-20 thread, see the end of this section

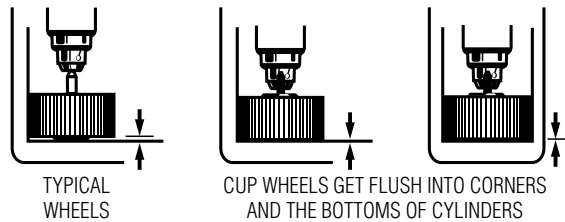


Cup-Type Mini Flap Wheels with 1/4" Mounted Steel Shanks

- Primarily used for bottom or side-wall type sanding where conventional tools do not reach
- Cup-type mini flap wheels will not mar your workpiece while reaching flush into areas where other wheels cannot reach

TIER:	GOOD
BRAND:	Merit
ABRASIVE:	Aluminum Oxide

D x W x SK.	MAX. RPM	GRIT	STD. PKG.	PART #
2-1/2 x 1-1/2 x 1/4	20,000	60	10	08834144463





3" – 8" Flap Wheels with Arbor Holes

- Flap wheels ranging from 3" to 8" diameter with arbor holes
- Heavy cotton backing and premium abrasive grains combine to provide superior life with aggressive cut on a wide range of polishing and finishing applications



TIER:	BETTER	GOOD
BRAND:	Merit	Norton
TRADENAME:	HIGH PERFORMANCE	METAL R207
ABRASIVE:	Aluminum Oxide Blend	Aluminum Oxide
OTHER:		P-Graded

SIZE (D x W x H)	GRIT	MAX. RPM	STD. PKG.	PART #	PART #
3 x 2 x 3/8	60	12,000	10	08834135050	
	80	12,000	10	08834135051	
	120	12,000	10	08834135052	
3-1/2 x 1 x 5/8	40	12,000	10	08834122001	
	50	12,000	10	08834122002	
	60	12,000	10	08834122003	63642502668
	80	12,000	10	08834122004	63642502669
	120	12,000	10	08834122006	
	180	12,000	10	08834122007	
	240	12,000	10	08834122008	
	320	12,000	10	08834122009	
3-1/2 x 1-1/2 x 5/8	40	12,000	10	08834122011	
	50	12,000	10	08834122012	
	60	12,000	10	08834122013	
	80	12,000	10	08834122014	
	120	12,000	10	08834122016	
	150	12,000	10	08834122017	
	180	12,000	10	08834122018	
	320	12,000	10	08834122020	
3-1/2 x 2 x 5/8	40	12,000	10	08834122022	
	60	12,000	10	08834122024	
	80	12,000	10	08834122025	
	120	12,000	10	08834122027	
	180	12,000	10	08834122028	
4 x 1 x 5/8	40	12,000	10	08834122032	
	50	12,000	10	08834122033	
	60	12,000	10	08834122034	63642502673
	80	12,000	10	08834122035	63642502674
	120	12,000	10	08834122037	63642502675
	180	12,000	10	08834122038	
	240	12,000	10	08834122039	
	320	12,000	10	08834122040	
4 x 1-1/2 x 5/8	40	12,000	10	08834122042	
	50	12,000	10	08834122043	
	60	12,000	10	08834122044	
	80	12,000	10	08834122045	
	120	12,000	10	08834122047	
4 x 2 x 5/8	240	12,000	10	08834122050	
	40	12,000	10	08834122053	
	50	12,000	10	08834122054	
	60	12,000	10	08834122055	63642502677
	80	12,000	10	08834122056	
	120	12,000	10	08834122058	
	180	12,000	10	08834122059	
	240	12,000	10	08834122060	
320	12,000	10	08834122061		

MERIT STOCK/NON-STOCK STATUS: Some Merit part numbers are non-stock. Ask your Norton/Merit representative for stock/MTO status.

For flap wheel with arbor hole adapters and bushings, see the end of this section. A set of reducing bushing will be included for 1" center hole wheels at no charge when purchased with flap wheels and specified on the order.

Continued



3" – 8" Flap Wheels with Arbor Holes (continued)



TIER:	BEST	BETTER	BETTER	GOOD	GOOD
BRAND:	Norton	Norton	Merit	Norton	Merit
TRADENAME:	BLAZE R920	R369	HIGH PERFORMANCE	METAL R207	ALUMINUM OXIDE
ABRASIVE:	Ceramic Alumina	Premium Aluminum Oxide Blend	Aluminum Oxide Blend	Aluminum Oxide	Aluminum Oxide
OTHER:	P-Graded	P-Graded		P-Graded	

SIZE (D x W x H)	GRIT	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #	PART #
5 x 1 x 5/8	40	6,200	10		66623399282			
	60	6,200	10		66623399283			
	80	6,200	10		66623399284		63642502678 5/PKG	
	120	6,200	10		66623399285			
5 x 1-1/2 x 5/8	40	12,000	10			08834122063		
	50	12,000	10			08834122064		
	60	12,000	10			08834122065		
	80	12,000	10			08834122066		
	120	12,000	10			08834122068		
	180	12,000	10			08834122070		
	240	12,000	10			08834122071		
	320	12,000	10			08834122072		
6 x 1/2 x 1	40	6,000	10			08834123001		
	60	6,000	10			08834123003		
	120	6,000	10			08834123005		
	150	6,000	10			08834122198		
	180	6,000	10			08834123006		
	240	6,000	10			08834123007		
6 x 1 x 1	320	6,000	10			08834122137		
	40	6,000	5			08834123009		08834120167
	50	6,000	5			08834123010		08834120168
	60	6,000	5	66261146104	69957394198	08834123011	63642502680	08834120169
	80	6,000	5	66261146105	69957394199	08834123012	63642502681	08834120170
	100	6,000	5					08834120171
	120	6,000	5	66261146106	69957394200	08834123014	63642502682	08834120172
	150	6,000	5			08834123015		
	180	6,000	5			08834123016		08834120174
	240	6,000	5			08834123017		08834120176
6 x 1-1/2 x 1	320	6,000	5			08834123018		08834120177
	40	6,000	5		66623399286	08834123020		
	50	6,000	5			08834123021		
	60	6,000	5		66623399287	08834123022	63642502686	
	80	6,000	5		66623399288	08834123023	63642502687	
	120	6,000	5		66623399289	08834123025		
	150	6,000	5			08834123026		
	180	6,000	5			08834123027		
6 x 2 x 1	240	6,000	5			08834123028		
	320	6,000	5			08834123029		
	40	6,000	5		66623399290	08834123031		08834120189
	50	6,000	5			08834123032		
	60	6,000	5		66623399291	08834123033	63642502691	08834120191
	80	6,000	5		66623399292	08834123034	63642502692	08834120192
	100	6,000	5					08834120198
	120	6,000	5		66623399293	08834123036	63642502694	08834120194
	180	6,000	5		66623399294	08834123038		08834120197
	240	6,000	5			08834123039		08834120199
6 x 3 x 1	320	6,000	5			08834123040		08834120493
	50	6,000	3			08834123054		
	60	6,000	3			08834123055		
	80	6,000	3			08834123056	63642502696 5/PKG	
	120	6,000	3			08834123058		
	150	6,000	3			08834122544		
	180	6,000	3			08834123060		
	240	6,000	3			08834123061		
320	6,000	3			08834122329			

MERIT STOCK/NON-STOCK STATUS: Some Merit part numbers are non-stock. Ask your Norton/Merit representative for stock/MTO status.
 For flap wheel with arbor hole adapters and bushings, see the end of this section.
 A set of reducing bushing will be included for 1" center hole wheels at no charge when purchased with flap wheels and specified on the order.
 Continued



3" – 8" Flap Wheels with Arbor Holes (continued)

		TIER: BEST		TIER: BETTER		TIER: BETTER		TIER: GOOD		TIER: GOOD	
		BRAND: Norton		BRAND: Norton		BRAND: Merit		BRAND: Norton		BRAND: Merit	
		TRADENAME: BLAZE R920		TRADENAME: R369		TRADENAME: HIGH PERFORMANCE		TRADENAME: METAL R207		TRADENAME: ALUMINUM OXIDE	
		ABRASIVE: Ceramic Alumina		ABRASIVE: Premium Aluminum Oxide Blend		ABRASIVE: Aluminum Oxide Blend		ABRASIVE: Aluminum Oxide		ABRASIVE: Aluminum Oxide	
		OTHER: P-Graded		OTHER: P-Graded		OTHER: P-Graded		OTHER: P-Graded		OTHER: P-Graded	
SIZE (D x W x H)	GRIT	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #	PART #	PART #	PART #	PART #
8 x 1 x 1	40	4,500	3			08834123070					
	50	4,500	3			08834123071					
	60	4,500	3		66623399295	08834123072					
	80	4,500	3		66623399296	08834123073	63642502698				
	120	4,500	3		66623399297	08834123075					
	180	4,500	3			08834123077					
	240	4,500	3			08834123078					
8 x 2 x 1	40	4,500	3			08834123092					
	50	4,500	3			08834123093					
	60	4,500	3			08834123094	63642502700				
	80	4,500	3			08834123095	63642502701				
	120	4,500	3			08834123097					
	180	4,500	3			08834123099					
	240	4,500	3			08834123100					
	320	4,500	3			08834123101					

MERIT STOCK/NON-STOCK STATUS: Some Merit part numbers are non-stock. Ask your Norton/Merit representative for stock/MTO status.
For flap wheel with arbor hole adapters and bushings, see the end of this section.
A set of reducing bushing will be included for 1" center hole wheels at no charge when purchased with flap wheels and specified on the order.



MERIT

Flap Wheel Test Kits

Merit Mini 1/4"-20 Thread Test Kit "CQ"

- Part # 08834138001
- Includes ten, 1" to 3" diameter, 1/4"-20 thread mini flap wheels
- Each kit includes a 1/4"-20 QC-4 quick-change adapter

Merit Mini 1/4" Steel Shank Test Kit "CMM"

- Part # 08834138004
- Includes ten wheels, 1" to 3" diameter in various grits
- The flap wheels are mounted on a 1/4" diameter hardened steel shank

Merit Micro Mini 1/8" Steel Shank Test Kit "MMC"

- Part # 08834131493
- Includes 5 wheels, 3/8" to 1-3/16" in diameter
- The flap wheels are mounted on a 1/8" diameter hardened steel shank
- Ideal for fast polishing and light deburring of holes or grooves



10" – 16" Large Flap Wheels with Arbor Holes

Wide range of applications:

- For polishing/grinding jobs in production work as well as clean-up and maintenance jobs
- Work on metals, plastic, rubber and wood

Easy to operate:

- No adjustments, dressing, or preparation required before or during operation

Fewer rejected parts:

- More forgiving than other abrasive products
- Reduce the possibility of flattening, gouging and surface deformation

TIER: **BETTER**
BRAND: **Merit**
TRADENAME: **HIGH PERFORMANCE**
ABRASIVE: Aluminum Oxide Blend

SIZE (D x W x H)	GRIT	MAX. RPM	STD. PKG.	PART #
10 x 1 x 1-3/4	40	4,000	4	08834122223
	80	4,000	4	08834124003
	120	4,000	4	08834124005
	150	4,000	4	08834124006
	180	4,000	4	08834124007
	240	4,000	4	08834122889
10 x 1-1/2 x 1-3/4	320	4,000	4	08834124009
	60	4,000	4	08834124022
10 x 2 x 1-3/4	80	4,000	4	08834124023
	120	4,000	4	08834124025
	180	4,000	4	08834124027
	60	4,000	2	08834124042
10 x 3 x 1-3/4	80	4,000	2	08834124043
	120	4,000	2	08834124045
	180	4,000	2	08834124047
	60	4,000	2	08834124077
12 x 1 x 1-3/4	80	4,000	2	08834122316
	120	4,000	2	08834122131
	180	4,000	2	08834122132
	60	3,000	4	08834124085
12 x 2 x 1-3/4	80	3,000	4	08834122349
	120	3,000	4	08834122311
	180	3,000	4	08834122315
	40	3,000	2	08834122248
14 x 1 x 1-3/4	50	3,000	2	08834122249
	60	3,000	2	08834122250
	120	3,000	2	08834122269
	150	3,000	2	08834122270
	180	3,000	2	08834122271
	240	3,000	2	08834122273
	320	3,000	2	08834122275
	50	2,400	1	08834120013
12 x 4 x 1-3/4	80	2,400	1	08834120015
	120	2,400	1	08834120016
	180	2,400	1	08834120017
	240	2,400	1	08834120019
14 x 1 x 1-3/4	60	2,400	1	08834120020
	120	2,400	1	08834120022
14 x 1-1/2 x 1-3/4	60	2,400	1	08834120024
	80	2,400	1	08834120025
	120	2,400	1	08834120026
	180	2,400	1	08834120027

TIER: **BETTER**
BRAND: **Merit**
TRADENAME: **HIGH PERFORMANCE**
ABRASIVE: Aluminum Oxide Blend

SIZE (D x W x H)	GRIT	MAX. RPM	STD. PKG.	PART #
14 x 2 x 1-3/4	60	2,400	1	08834120028
	80	2,400	1	08834123215
	120	2,400	1	08834122907
	240	2,400	1	08834120032
14 x 3 x 1-3/4	60	2,400	1	08834120033
	80	2,400	1	08834120034
	120	2,400	1	08834120035
14 x 4 x 1-3/4	240	2,400	1	08834120036
	60	2,000	1	08834120037
	80	2,000	1	08834122829
16 x 1 x 1-3/4	120	2,000	1	08834122502
	240	2,000	1	08834120041
	60	2,400	1	08834120042
	80	2,400	1	08834120043
16 x 2 x 1-3/4	120	2,400	1	08834120044
	180	2,400	1	08834120045
	240	2,400	1	08834120046
	60	2,400	1	08834120047
16 x 3 x 1-3/4	80	2,400	1	08834120049
	120	2,400	1	08834120050
	180	2,400	1	08834120051
	240	2,400	1	08834120052
16 x 4 x 1-3/4	60	2,400	1	08834120053
	80	2,400	1	08834120054
	120	2,400	1	08834120055
	180	2,400	1	08834120056
16 x 6 x 1-3/4	240	2,400	1	08834120057
	60	2,000	1	08834120058
	120	2,000	1	08834120060
	240	2,000	1	08834122435
16 x 6 x 1-3/4	80	2,000	1	08834120068
	120	2,000	1	08834120069
	180	2,000	1	08834120070
	240	2,000	1	08834120071

MERIT STOCK/NON-STOCK STATUS: Some Merit part numbers are non-stock. Ask your Norton/Merit representative for stock/MTO status.

For flap wheel with arbor hole adapters and bushings, see the end of this section.



Adapter and Bushings for Flap Wheels with Arbor Holes

WHEEL DIAMETER	ADAPTERS	PART #
Shank Adapters		
3-1/2	1/4 Shank	08834125001
3-1/2	3/8 Shank	08834125007*
4-8	1/4 Shank	08834125003
Threaded Mounting Adapters		
4-8	5/8-11 Thread	08834125027
Reducing Bushings		
6-8	1 to 3/8	08834125016*
	1 to 1/2	08834125017
	1 to 5/8	08834125018*
	1 to 3/4	08834125019*
	1 to 7/8	08834125020*
10-16	1 to 5/8	08834122069*

Standard packages = 1 adapter, 1 pair of bushings

* Non-stock. Please call for lead-times.

For additional aluminum reducing bushings see non-woven convolute wheel section



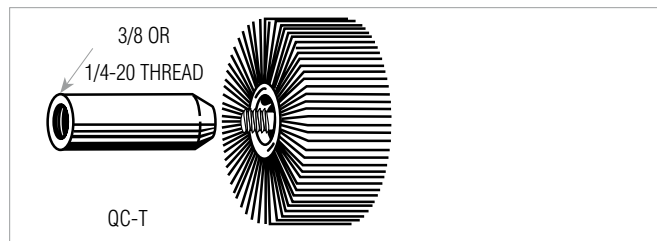
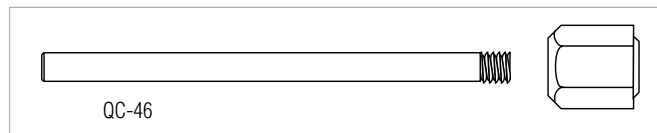
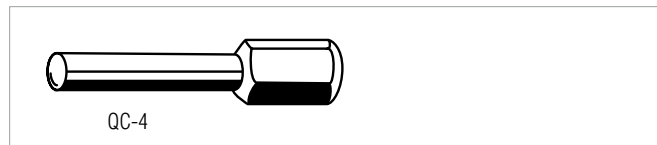
Adapters for 1/4"-20 Thread Mini and Arbor Hole Flap Wheels

MODEL #	DESCRIPTION	PART #
Adapters		
ADAPT C	Fits 3 x 2 x 3/8 arbor flap wheel	08834137009*
MA-100	Fits A.H. Mini Wheel	08834137007*
QC-8	1/8 x 5/8	08834137002*
QC-4	1/4 SK. Dia. x 5/8 SK. L.	08834137001
QC-44	1/4 x 4	08834137003
QC-46	1/4 x 6	08834137004
QC-48	1/4 x 8	08834137005
QC-T	1/4-20 Thread	08834137012
QC-T	3/8-24 Thread	08834137010

Standard package = 1 adapter

Other thread sizes available for quotation

* Non-stock. Please call for lead-times.





Sand-O-Flex Wheels

With their firm cushioning brushes, Sand-O-Flex's abrasive strips are forced into, around and over corners, hollow and fluted surfaces, and small openings. Pressure is distributed evenly over the surface to prevent loss of detail and the flattening of rounded areas; for sanding metals, woods, plastics, rubber and ceramic.

Sand-O-Flex wheels eliminate the need to hand-sand and are designed to fit most standard equipment. They load quickly and easily by turning the index knob as needed, allowing you to change grit size in minutes. Sand-O-Flex refills are available both scored (for finer, less aggressive work) and unscored. And, with the use of Merit adapters, Sand-O-Flex wheels will fit most electric bench grinders.

Sand-O-Flex Wheel – Model 350-RP

- Diameter: 6-1/2" overall, 4" diameter high-impact plastic body
- 1" wide abrasive strips backed by 8 cushioning brushes
- 1/4" diameter steel shank
- Weight: 9-1/2 oz.
- Maximum operating speed: 2,400 RPM
- Special adapter required for bench grinder use
- Some assembly required

TIER: **GOOD**
 BRAND: Merit
 TRADENAME: **SAND-O-FLEX**
 ABRASIVE: Aluminum Oxide

MODEL #	GRIT	STD. PKG.	PART #
Sand-O-Flex Wheel			
350-RP		1	08834111051
<i>Comes assembled with 80 grit A/O resin bond scored refill and brushes</i>			
Sand-O-Flex Accessories			
Bench Grinder Adapter 350-RP 1/4 shank to 1/2 shank		1	08834111055
Replacement Brushes for 350-RP; 8 per set		1 set	08834113003
Resin Bond Refills			
350-RP SCORED			
	60	10	08834111052
	80	10	08834111053
	100	10	08834112114
	120	10	08834111054
	180	10	08834111057
Glue Bond Refills			
350-RP SCORED			
	80	10	08834112054
	100	10	08834112055
	120	10	08834112056
	180	10	08834112058
350-RP UNSCORED			
	80	10	08834112044
	180	10	08834112048

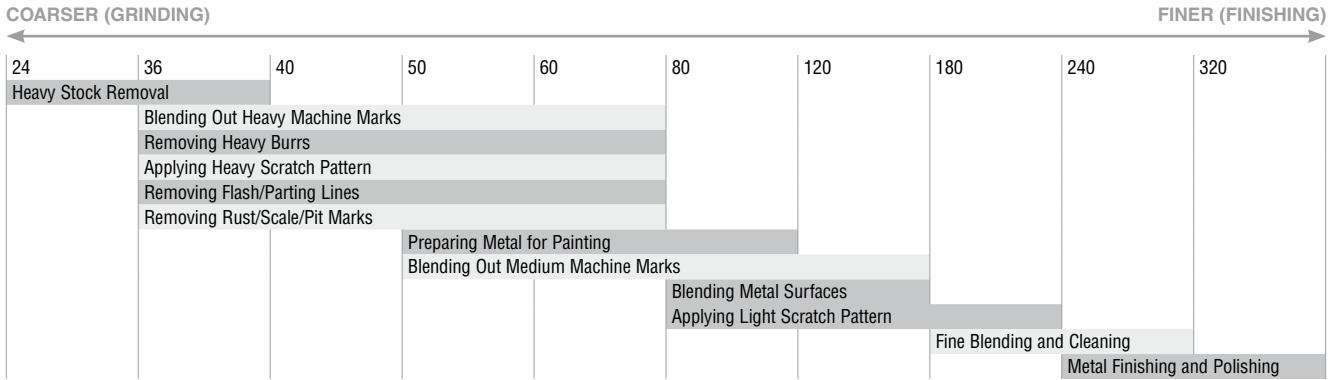




Best product for blending and polishing contours when smooth running is a primary concern. Used for finishing hard-to-reach areas, removing parting lines, imperfections, and burrs on all surfaces.

- Benefits:** Spiral construction avoids shadow marks and provides smooth, chatter-free cutting action. Achieves close tolerances when finishing curved, contoured, and hard-to-reach areas. Fast cutting and removes toughest metal. Bands are easily removed and replaced
- Grit Range:** 24 - 320
- Abrasive Grain:** Ceramic Alumina, Aluminum Oxide
- Backing:** X-weight cotton
- Other:** Use with rubber expanding drum
- Machine Used:**

APPLICATION/GRIT RECOMMENDATION GUIDE



NORTON BLAZE R920 CERAMIC ALUMINA

BEST CHOICE FOR HARD-TO-GRIND MATERIALS INCLUDING SUPER ALLOYS (COBALT, INCONEL, AND TITANIUM) AND STAINLESS STEEL

FEATURES & BENEFITS

- See significantly faster, cooler, burn-free grinding from our next-generation of sharp, ceramic abrasive grains
- Advanced, full resin bond system designed to promote exceptional grain retention for additional product life
- Flexible, yet strong X-weight heavy cotton backing provides durability and even wear while eliminating aggressiveness for smooth, chatter-free cutting action, and longer life for less change-overs
- Advanced grinding aid promotes cooler cutting, longer life

NORTON METAL R265 ALUMINUM OXIDE

GOOD CHOICE WHEN INITIAL PRICE IS A KEY PURCHASING CRITERIA

FEATURES & BENEFITS

- Solid-performance aluminum oxide grain for a good starting specification with consistent performance
- Advanced, full resin bond system designed to promote exceptional grain retention for additional product life
- Flexible, yet strong X-weight heavy cotton backing provides durability and even wear

MERIT ALUMINUM OXIDE

GOOD STARTING SPECIFICATION FOR ALL TYPES OF METAL

FEATURES & BENEFITS

- Tough and durable quality aluminum oxide abrasive
- Flexible, yet strong X-weight cotton backing construction for extended durability and even wear
- Durable resin bond system provides longer life



TIER: BEST	GOOD	GOOD
BRAND: Norton	Norton	
TRADENAME: BLAZE R920	METAL R265	EXPANDING RUBBER DRUM
ABRASIVE: Ceramic Alumina	Aluminum Oxide	-
OTHER: Supersize		

SIZE (D x W)	GRIT	STD. PKG.	PART #	PART #	PART #
1/2 x 1	40	100	66261146012	66261146078	08834196906
	60	100	66261146013	66261146079	1/4" shank
	80	100	66261146014	66261146080	15,000 Max. RPM
	120	100	66261146015	66261146081	
3/4 x 1	40	100	66261146016	66261146082	08834196911
	60	100	66261146017	66261146083	1/4" shank
	80	100	66261146018	66261146084	17,000 MAX. RPM
1 x 1	40	100	66261146020	66261146086	08834196916
	60	100	66261146021	66261146087	1/4" shank
	80	100	66261146022	66261146088	18,000 MAX. RPM
	120	100	66261146023	66261146089	
1-1/2 x 1-1/2	40	100	66261146024	66261146090	08834196922
	60	100	66261146025	66261146093	1/4" shank
	80	100	66261146026	66261146094	10,000 MAX. RPM
	120	100	66261146027	66261146095	
2 x 2	40	100	66261146028	66261146096	08834196928
	60	100	66261146029	66261146097	1/4" shank
	80	100	66261146030	66261146098	6,000 MAX. RPM
	120	100	66261146031	66261146099	
3 x 3	40	50	66261146032	66261146100	08834196931
	60	50	66261146033	66261146101	3/8" shank
	80	50	66261146034	66261146102	3,000 MAX. RPM
	120	50	66261146035	66261146103	

TIER: **GOOD**
BRAND: Merit
ABRASIVE: Aluminum Oxide

GRIT	1/4 x 1/2	1/4 x 1	3/8 x 1/2	3/8 x 1	1/2 x 1/2	1/2 x 1	1/2 x 1-1/2	1/2 x 2
24	-	-	-	-	-	08834196712	-	-
36	-	-	-	08834197674	08834196619	08834196591	08834196237	08834196758
40	08834196614	-	-	-	08834196234	08834196174	-	08834196825
50	08834196292	08834196785	08834196386	-	08834196228	08834196214	08834197111	08834196548
60	08834196342	-	08834196829	08834196999	08834196068	08834196212	08834196053	08834196549
80	08834196269	08834196733	08834196512	08834196645	08834196179	08834196215	08834196646	08834196669
100	08834196511	08834196734	08834196513	-	08834196189	08834196534	08834196540	08834196735
120	08834196217	08834197004	08834196747	08834196218	08834196069	08834196210	08834196324	08834196736
150	-	-	-	-	-	08834196772	-	-
180	08834196490	-	08834196504	-	08834196209	08834196713	-	-
240	-	-	08834196481	-	08834196564	08834196814	-	-
320	08834196865	-	08834196830	-	08834196505	08834196487	-	-
PKG. QTY. STOCK	100/box	100/box	100/box	100/box	100/box	100/box	100/box	100/box
MOQ NON-STOCK	400	400	300	300	300	300	300	200
Expanding Rubber Drums								
	1/8 Shank	NA	1/8 Shank	1/8 Shank	1/4 Shank	1/4 Shank	1/4 Shank	1/4 Shank
	30,000 RPM		30,000 RPM	18,000 RPM	30,000 RPM	15,000 RPM	12,000 RPM	10,000 RPM
	08834196030		08834196944	08834196011	08834196904	08834196906	08834196907	08834196908

MERIT STOCK/NON-STOCK STATUS: Some Merit specialty part numbers are non-stock. Contact your Norton/Merit representative for stock/MTO status.

TIER: **GOOD**
 BRAND: Merit
 ABRASIVE: Aluminum Oxide

GRIT	3/4 x 1/2	3/4 x 3/4	3/4 x 1	3/4 x 1-1/2	3/4 x 2	1 x 1/2	1 x 1	1 x 1-1/2
24	-	-	08834196776	08834196596	-	-	08834196563	08834196708
36	08834196769	08834196609	08834196261	08834196238	08834196953	08834196058	08834196072	08834196525
40	-	08834196236	08834196517	08834196227	08834196826	-	08834196073	08834196546
50	08834196608	08834196183	08834196515	08834196500	08834196757	-	08834196184	08834196078
60	08834196578	08834196168	08834196070	08834196554	08834196745	08834196580	08834196075	08834196060
80	08834196255	08834196161	08834196071	08834196249	08834196756	08834196647	08834196074	08834196162
100	-	08834196230	08834196502	08834196501	08834196766	-	08834196167	08834196257
120	08834196579	08834196226	08834196219	08834196057	08834196746	08834197592	08834196177	08834196677
150	-	08834196231	-	-	08834197283	-	-	08834197639
180	08834197116	-	08834196565	08834196851	-	-	08834196059	08834196790
240	08834196603	08834196859	08834196668	-	66254410751	-	08834196178	08834196526
320	08834196806	-	08834196624	-	-	-	08834196789	08834197700
PKG. QTY. STOCK	100/box	100/box	100/box	100/box	100/box	100/box	100/box	100/box
MOQ NON-STOCK	300	300	300	300	200	200	300	200

Expanding Rubber Drums



1/4 Shank	1/4 Shank	1/4 Shank	1/4 Shank	1/4 Shank	1/4 Shank	1/4 Shank	1/4 Shank	1/4 Shank
27,000 RPM	24,000 RPM	17,000 RPM	10,000 RPM	10,000 RPM	20,000 RPM	18,000 RPM	10,000 RPM	
08834196909	08834196910	08834196911	08834196912	08834196913	08834196914	08834196916	08834196917	

MERIT STOCK/NON-STOCK STATUS: Some Merit specialty part numbers are non-stock. Contact your Norton/Merit representative for stock/MTO status.

TIER: **GOOD**
 BRAND: Merit
 ABRASIVE: Aluminum Oxide

GRIT	1 x 2	1 x 3	1-1/2 x 1	1-1/2 x 1-1/2	1-1/2 x 2	1-1/2 x 3	2 x 1	2 x 1-1/2
24	08834196709	-	-	08834196220	08834196539	-	-	08834196700
36	08834196267	08834196665	08834196222	08834196164	08834196657	08834197063	08834196233	08834196509
40	08834196689	-	-	08834196171	08834196598	-	08834196109	08834196514
50	08834196588	08834197688	08834196185	08834196176	08834196252	-	08834196186	08834196527
60	08834196506	08834196676	08834196503	08834196091	08834196067	08834196703	08834196232	08834196978
80	08834196268	08834196195	08834196254	08834196165	08834196533	08834196809	08834196166	08834196259
100	08834196750	-	-	08834196182	08834196543	08834196522	08834196508	08834196521
120	08834196507	08834196197	08834196707	08834196066	08834196079	08834196343	08834196595	08834196586
150	08834197664	-	-	08834197750	08834197376	-	-	-
180	08834196987	-	-	08834196535	-	08834197869	08834196661	08834196536
240	-	-	08834196491	08834196260	08834197709	-	08834197983	-
320	-	-	08834196063	08834197647	-	-	-	-
PKG. QTY. STOCK	100/box	100/box	100/box	100/box	100/box	100/box	100/box	100/box
MOQ NON-STOCK	200	100	300	200	200	100	200	200

Expanding Rubber Drums



1/4 Shank	NA	1/4 Shank	1/4 Shank	1/4 Shank	NA	1/4 Shank	1/4 Shank
8,000 RPM		12,000 RPM	10,000 RPM	8,000 RPM		11,000 RPM	8,000 RPM
08834196918		08834196921	08834196922	08834196923		08834196926	08834196927

MERIT STOCK/NON-STOCK STATUS: Some Merit specialty part numbers are non-stock. Contact your Norton/Merit representative for stock/MTO status.

TIER: **GOOD**
 BRAND: Merit
 ABRASIVE: Aluminum Oxide

GRIT	2 x 2	2 x 3	2-1/4 x 3	3 x 1	3 x 1-1/2	3 x 2	3 x 3
24	08834196516	-	-	08834196795	-	-	08834196256
36	08834196110	-	08834197140	08834196717	-	-	08834196262
40	08834196172	-	-	08834196755	-	08834196090	08834196555
50	08834196187	08834196152	08834196620	-	-	08834196264	08834196253
60	08834196173	08834196175	-	08834196150	-	08834196530	08834196188
80	08834196181	08834196198	08834196270	08834196524	08834196633	08834196265	08834196159
100	08834196193	-	-	-	-	-	08834196250
120	08834196585	-	08834196729	08834196089	-	08834196531	08834196572
150	08834196629	-	08834195857	-	-	-	08834196452
180	08834196306	-	-	-	-	-	08834196131
240	08834196375	-	-	-	-	-	-
320	-	-	-	-	-	-	08834197968
PKG. QTY. STOCK	100/box	100/box	100/box	100/box	100/box	100/box	100/box
MOQ NON-STOCK	200	100	100	200	200	100	100

Expanding Rubber Drums



1/4 Shank	NA	NA	3/8 Shank	NA	3/8 Shank	3/8 Shank
6,000 RPM			3,000 RPM		3,000 RPM	3,000 RPM
08834196928			08834196929		08834196930	08834196931

MERIT STOCK/NON-STOCK STATUS: Some Merit specialty part numbers are non-stock. Contact your Norton/Merit representative for stock/MTO status.



Cartridge rolls are strips of abrasive cloth rolled and glued to form a solid shape that is designed to break down during use and reveal the next layer of abrasive. Valuable abrasive tool for reaching into corners, where larger diameter tools cannot work

- Applications:** Used on inside surfaces and inside corners where other abrasive shapes cannot reach. Typically these are used on high-speed air grinders and are always mounted on a mandrel. Ideal for flash removal, polishing or removing machine tool marks, and edge breaking.
- Stock Shapes:** Cartridge rolls, half-glued
- Grit Range:** 36 - 320
- Abrasive Grain:** Ceramic Alumina, Aluminum Oxide, Silicon Carbide
- Backing:** X-weight cotton
- Construction:** All cartridge roll part numbers shown are resin bond, half-glued. Quarter and full glue are also available for quotation as made-to-order products.
- Maximum RPM:** 1/8" to 1/2" – 23,000
5/8" to 1" – 18,000
1" to 1-1/2" – 15,000
- Machine Used:**

APPLICATION/GRIT RECOMMENDATION GUIDE

← COARSER (GRINDING)					FINER (FINISHING) →			
36	40	50	60	80	120	180	240	320
Blending Out Heavy Machine Marks								
Removing Heavy Burrs								
Applying Heavy Scratch Pattern								
Removing Flash/Parting Lines								
Removing Rust/Scale/Pit Marks								
		Preparing Metal for Painting						
		Blending Out Medium Machine Marks						
			Blending Metal Surfaces					
			Applying Light Scratch Pattern					
					Fine Blending and Cleaning			
							Metal Finishing and Polishing	

NORTON BLAZE R920 CERAMIC ALUMINA

BEST CHOICE FOR HARD-TO-GRIND MATERIALS INCLUDING SUPER ALLOYS (COBALT, INCONEL, AND TITANIUM) AND STAINLESS STEEL



NEW

FEATURES & BENEFITS

- Next-generation ceramic alumina abrasive grain provides greatest productivity with significantly faster cut rates
- Resists wear, resulting in 50% – 300% longer life
- Advanced grinding aid promotes cooler cutting, longer life
- Improved resin bond system for exceptional grain retention and longer life
- Strong X-weight cotton backing provides durability and even wear

MERIT CERAMIC PLUS

BETTER CHOICE FOR STAINLESS STEEL AND OTHER HARD-TO-GRIND MATERIALS



FEATURES & BENEFITS

- Sharp ceramic alumina abrasive blend delivers cooler cut
- Durable X-weight cotton backing ensures even wear
- Grinding aid promotes cooler cut on stainless steel

MERIT ALUMINUM OXIDE PLUS

GOOD STARTING SPECIFICATION FOR FLASH REMOVAL, POLISHING, OR REMOVING MACHINE TOOL MARKS AND EDGE BREAKING ON ALL TYPES OF METAL

FEATURES & BENEFITS

- Premium aluminum oxide abrasive and grinding aid lubricant control aggressiveness while cool cutting
- Advanced, full resin bond system ensures edge adhesion and long life



NORTON METAL R265 ALUMINUM OXIDE

GOOD CHOICE WHEN INITIAL PRICE IS A KEY PURCHASING CRITERIA

FEATURES & BENEFITS

- Our solid-performance aluminum oxide grain makes these cartridge rolls a good starting specification with consistent performance for small jobs or anywhere performance need not be measured



NEW

MERIT ALUMINUM OXIDE

GOOD STARTING SPECIFICATION FOR FLASH REMOVAL, POLISHING, OR REMOVING MACHINE TOOL MARKS AND EDGE BREAKING ON ALL TYPES OF METAL

FEATURES

- Quality aluminum oxide abrasive
- Strong X-weight cotton backing construction
- Durable resin bond system

BENEFITS

- Tough and durable
- For extended durability and even wear
- Provides longer life



MERIT SILICON CARBIDE

GOOD CHOICE FOR TOUGH, DIFFICULT-TO-GRIND MATERIALS, AS WELL AS SOFT, LOADING MATERIALS

FEATURES

- Sharp silicon carbide abrasive
- Durable resin bond system

BENEFITS

- Provides high initial cut on non-ferrous and soft-loading materials such as titanium, masonry, composites, plastic, and rubber
- Exceptional grain retention and longer life





TIER:	BEST	BETTER	GOOD	GOOD
BRAND:	Norton	Merit	Merit	Merit
TRADENAME:	BLAZE R920	CERAMIC PLUS	A/O PLUS	SILICON CARBIDE
ABRASIVE:	Ceramic Alumina	Ceramic Alumina Blend	Aluminum Oxide	Silicon Carbide
OTHER:	Supersize	Supersize	Supersize	

SIZE (D x L x H)	GRIT	STD. PKG.	PART #	PART #	PART #	PART #
1/4 x 1 x 1/8 Use M-9 Mandrel	60	100				
1/4 x 1-1/2 x 1/8 Use M-9 Mandrel	60	100	66261194384	66261040477		08834183274
	80	100	66261194394	69957300001		08834182359
	120	100	66261194397		77696089003	08834189131
3/8 x 1-1/2 x 1/8 Use M-9 Mandrel	60	100	66261194392	66261041270		
	80	100	66261194395	08834187134	77696089005	08834180710
	120	100	66261194398			66261042229
1/2 x 1-1/2 x 1/8 Use M-9 Mandrel	60	100	66261194393	08834184221	77696089007	08834189233
	80	100	66261194396	66261012798	77696089008	08834180712
	120	100	66261194399			66261086969



TIER:	GOOD	GOOD
BRAND:	Norton	Merit
TRADENAME:	METAL R265	A/O
ABRASIVE:	Aluminum Oxide	Aluminum Oxide

SIZE (D x L x H)	GRIT	STD. PKG.	PART #	
3/16 x 3/4 x 3/32	80	100	08834180005	
3/16 x 1 x 3/32 Use M-2E Mandrel	60	100	08834180023	
	80	100	08834180024	
	100	100	08834180025	
	120	100	08834180026	
	150	100	08834180027	
	180	100	08834180028	
1/4 x 3/4 x 1/8 Use M-3 or M-7 Mandrel	240	100	08834180030	
	320	100	08834180032	
	60	100	08834180042	
	80	100	08834180043	
	1/4 x 1 x 1/8 Use M-4 or M-8 Mandrel	50	100	08834180060
		60	100	66261132175
80		100	66261132178	
100		100	08834180063	
120		100	66261132179	
150		100	08834180065	
180		100	08834180066	
240		100	08834180068	
320		100	08834180070	
1/4 x 1-1/2 x 1/8 Use M-9 Mandrel		50	100	08834180079
		60	100	66261132182
	80	100	66261132183	
	100	100	08834180082	
	120	100	66261132184	
	150	100	08834180084	
	180	100	08834180085	
	320	100	08834180089	
1/4 x 2 x 1/8 Use M-10 Mandrel	80	100	08834180100	
	100	100	08834180101	
	120	100	08834180102	
5/16 x 1 x 1/8 Use M-4 or M-8 Mandrel	60	100	08834180137	
	80	100	08834180138	
	120	100	08834180140	



TIER:	GOOD	GOOD
BRAND:	Norton	Merit
TRADENAME:	METAL R265	A/O
ABRASIVE:	Aluminum Oxide	Aluminum Oxide

SIZE (D x L x H)	GRIT	STD. PKG.	PART #	
5/16 x 1-1/2 x 1/8 Use M-9 Mandrel	60	100	08834180156	
3/8 x 3/4 x 1/8 Use M-7 Mandrel	80	100	08834180157	
	120	100	08834180197	
3/8 x 1 x 1/8 Use M-8 Mandrel	60	100	66261132185	
	80	100	66261132186	
	100	100		
	120	100	66261132187	
	150	100		
	180	100		
	240	100		
	3/8 x 1-1/2 x 1/8 Use M-9 Mandrel	36	100	08834180213
		40	100	08834180214
		50	100	08834180215
60		100	66261132188	
80		100	66261132189	
100		100	08834180216	
120		100	08834180217	
180		100	08834180218	
240		100	08834180219	
320		100	08834180220	
3/8 x 2 x 1/8 Use M-10 Mandrel	60	100	08834180228	
	80	100	08834180229	
	100	100	08834180230	
	120	100	66261132188	
	180	100	66261132189	
	240	100	08834180231	
1/2 x 3/4 x 1/8 Use M-7 Mandrel	50	100	08834180232	
	60	100	08834180233	
	80	100	66261132190	
	100	100	08834180234	
	120	100	08834180235	
	180	100	08834180236	
	240	100	08834180237	
	320	100	08834180238	
	1/2 x 1 x 1/8 Use M-8 Mandrel	60	100	08834180240
		80	100	08834180250
100		100	08834180251	
120		100	08834180252	
150		100	08834180253	
180		100	08834180254	
240		100	08834180270	
1/2 x 3/4 x 1/8 Use M-7 Mandrel		50	100	08834180287
	60	100	66261132191	
	80	100	66261132192	
	100	100	08834180288	
	120	100	08834180289	
	150	100	08834180290	
	180	100	66261132193	
	240	100	08834180291	
	1/2 x 1 x 1/8 Use M-8 Mandrel	50	100	08834180292
		60	100	08834180293
80		100	08834180294	
120		100	08834180295	

MERIT STOCK/NON-STOCK STATUS: Some Merit specialty part numbers are non-stock. Contact your Norton/Merit representative for stock/MTO status.

Continued



TIER:	GOOD	GOOD
BRAND:	Norton	Merit
TRADENAME:	METAL R265	A/O
ABRASIVE:	Aluminum Oxide	Aluminum Oxide

SIZE (D x L x H)	GRIT	STD. PKG.	PART #
1/2 x 1-1/2 x 1/8 Use M-9 Mandrel	36	100	08834180304
	40	100	08834180305
	50	100	08834180306
	60	100	66261132194 08834180307
	80	100	66261132195 08834180308
	100	100	08834180309
	120	100	66261132197 08834180310
	150	100	08834180311
	180	100	08834180312
1/2 x 2 x 1/8 Use M-10 Mandrel	240	100	08834180314
	320	100	08834180316
	60	100	08834180326
	80	100	08834180327
	100	100	08834180328
	120	100	08834180329
	240	100	08834180333
	320	100	08834180335
	08834180350		
1/2 x 2 x 3/16 Use M-17 Mandrel	60	100	08834180653
	80	100	08834180338
	120	100	08834183168
1/2 x 2 x 1/4 Use M-22 Mandrel	40	100	08834180351
	80	100	08834180351
5/8 x 1 x 3/16 Use M-15 Mandrel	80	100	08834180364
5/8 x 1-1/2 x 1/8 Use M-9 Mandrel	36	100	08834180395
	40	100	08834180392
	50	100	08834180393
	60	100	08834180275
	80	100	08834180789
	120	100	08834180394
5/8 x 1-1/2 x 3/16 Use M-16 Mandrel	60	100	08834180382
	80	100	08834180383
5/8 x 2 x 1/8 Use M-10 Mandrel	60	100	08834182505
	80	100	08834181080
5/8 x 2 x 3/16 Use M-10 Mandrel	50	100	08834180400
	60	100	08834180401
	80	100	08834180402
	100	100	08834180403
3/4 x 1 x 1/8 Use M-8 Mandrel	80	100	08834180469
	120	100	08834181543

Continued



TIER:	GOOD	GOOD
BRAND:	Norton	Merit
TRADENAME:	METAL R265	A/O
ABRASIVE:	Aluminum Oxide	Aluminum Oxide


SIZE (D x L x H)	GRIT	STD. PKG.	PART #
3/4 x 1 x 3/16 Use M-15 Mandrel	40	100	08834180456
	80	100	08834180459
	120	100	08834180461
3/4 x 1-1/2 x 1/8 Use M-9 Mandrel	60	100	66261132198 08834180490
	80	100	66261132199 08834180527
	120	100	66261132200 08834180487
3/4 x 1-1/2 x 3/16 Use M-16 Mandrel	36	100	08834180474
	50	100	08834180476
	60	100	08834180477
	80	100	08834180478
	120	100	08834180480
	180	100	08834180482
3/4 x 1-1/2 x 1/4 100/box 400/case Use M-21 Mandrel	36	100	08834180907
	60	100	08834180489
	80	100	08834180358
	120	100	08834180488
3/4 x 2 x 1/8 Use M-10 Mandrel	150	100	08834182807
	60	100	08834180791
3/4 x 2 x 3/16 Use M-17 Mandrel	40	100	08834180494
	60	100	08834180496
	80	100	08834180497
	100	100	08834180498
3/4 x 2 x 1/4 Use M-22 Mandrel	120	100	08834180499
	60	100	08834180506
	80	100	08834181297
	100	100	08834180509
1 x 1-1/2 x 1/8 Use M-9 Mandrel	120	100	08834180507
	80	100	08834180584
1 x 1-1/2 x 1/4 Use M-21 Mandrel	36	100	08834181195
	60	100	08834180587
	80	100	08834180583
1 x 2 x 3/16 Use M-17 Mandrel	60	100	08834180591
	80	100	08834180592
1 x 2 x 1/4 Use M-22 Mandrel	60	100	08834180603
	80	100	08834180606

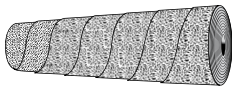
MERIT STOCK/NON-STOCK STATUS: Some Merit specialty part numbers are non-stock. Contact your Norton/Merit representative for stock/MTO status.

Refer to the back of this section for mandrels.



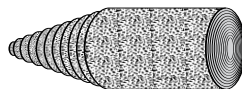
Spiral rolls are strips of abrasive cloth rolled and glued to form a solid shape that is designed to break down during use and reveal the next layer of abrasive.

- Applications:** Used on inside surfaces and inside corners where other abrasive shapes cannot reach. Typically these are used on high-speed air grinders and are always mounted on a mandrel. Ideal for flash removal, polishing, or removing machine tool marks, and edge breaking.
- Shapes:** Full taper (all stock part numbers), half taper, and sidewall taper
- Grit Range:** 36 - 240
- Abrasive Grain:** Ceramic Alumina, Aluminum Oxide, Silicon Carbide
- Backing:** X-weight cotton
- Construction:** All spiral roll part numbers shown are full tapered, resin bond, half glued. Half-tapered and sidewall-tapered are available for quotation as made-to-order products. Quarter and full glue are also available for quotation as made-to-order products.
- Maximum RPM:** 1/8" to 1/2" – 23,000
5/8" to 1" – 18,000
1" to 1-1/2" – 15,000
- Machine Used:** 



Full Taper

- Especially useful for grinding/polishing of channels, fillets and radii, and deburring small holes
- Full taper used when the area to be finished is hard to reach with a full cartridge roll
- The tapered roll conforms to smaller areas
- Fits into irregular concaves, contours, channels



Half Taper

- Used when the area to be finished is not narrow but a beginning point on the roll is needed
- The portion of the roll that is not tapered is then used to finish off the sides



Sidewall Taper

- The portion of the roll that is tapered guides the roll down to the area to be finished
- The sidewall then finishes off the sides

APPLICATION/GRIT RECOMMENDATION GUIDE

COARSER (GRINDING)					FINER (FINISHING)				
36	40	50	60	80	120	180	240	320	
Blending Out Heavy Machine Marks									
Removing Heavy Burrs									
Applying Heavy Scratch Pattern									
Removing Flash/Parting Lines									
Removing Rust/Scale/Pit Marks									
		Preparing Metal for Painting							
		Blending Out Medium Machine Marks							
				Blending Metal Surfaces					
				Applying Light Scratch Pattern					
						Fine Blending and Cleaning			
							Metal Finishing and Polishing		

NORTON BLAZE R920 CERAMIC ALUMINA

BEST CHOICE FOR HARD-TO-GRIND MATERIALS INCLUDING SUPER ALLOYS (COBALT, INCONEL, AND TITANIUM) AND STAINLESS STEEL

NEW



FEATURES

- Next-generation ceramic alumina abrasive grain
- Advanced grinding aid
- Improved resin bond system
- Strong X-weight cotton backing

BENEFITS

- Greatest productivity with significantly faster cut rates
- Resists wear, resulting in 50% – 300% longer life
- Cooler cutting, longer life
- Exceptional grain retention and longer life
- Durability and even wear

MERIT ALUMINUM OXIDE PLUS

GOOD CHOICE FOR COOLER GRINDING/POLISHING OF CHANNELS, FILLETS AND RADII, AND DEBURRING SMALL HOLES

FEATURES

- Premium aluminum oxide abrasive and grinding aid lubricant
- Strong X-weight cotton backing construction
- Advanced, full resin bond system

BENEFITS

- Runs cooler and more efficiently; ideal for grinding exotic alloys
- For extended durability and even wear
- Provides exceptional grain retention and longer life

NORTON METAL R265 ALUMINUM OXIDE

GOOD CHOICE WHEN INITIAL PRICE IS A KEY PURCHASING CRITERIA

FEATURES & BENEFITS

- Our solid-performance aluminum oxide grain makes these spiral rolls a good starting specification with consistent performance for small jobs or anywhere performance need not be measured

NEW

MERIT ALUMINUM OXIDE

GOOD CHOICE FOR COOLER GRINDING/POLISHING OF CHANNELS, FILLETS AND RADII, AND DEBURRING SMALL HOLES AT A LOW INITIAL PRICE

FEATURES

- Quality aluminum oxide abrasive
- Strong X-weight cotton backing construction
- Durable resin bond system

BENEFITS

- For the buyer whose major purchasing criterion is low initial price
- Durability and even wear
- Exceptional grain adhesion and longer life

MERIT SILICON CARBIDE

GOOD CHOICE FOR TOUGH, DIFFICULT-TO-GRIND MATERIALS, AS WELL AS SOFT, LOADING MATERIALS

FEATURES

- Sharp silicon carbide abrasive
- Durable resin bond system

BENEFITS

- Provides high initial cut on non-ferrous and soft-loading materials such as titanium, masonry, composites, plastic, and rubber
- Exceptional grain retention and longer life



TIER:	BEST	GOOD	GOOD	GOOD	GOOD
BRAND:	Norton	Merit	Norton	Merit	Merit
TRADENAME:	BLAZE R920	A/O PLUS	METAL R265	ALUMINUM OXIDE	SILICON CARBIDE
ABRASIVE:	Ceramic Alumina	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Silicon Carbide
OTHER:	Supersize	Supersize			

SIZE (D x L x H)	GRIT	STD. PKG.			PART #	
3/8 x 1 x 1/8 Use M-8 Mandrel	60	100			08834181714	
	80	100			08834181715	
	120	100			08834181717	
	180	100			08834181719	
3/8 x 1-1/2 x 1/8 Use M-9 Mandrel	50	100			08834181723	
	60	100	66261194481	77696089010	08834181724	08834189901
	80	100	66261194490	77696089011	08834181708	08834189904
	120	100	66261194491	77696089012	08834181727	66261046936
1/2 x 1 x 1/8 Use M-8 Mandrel	60	100			08834181709	
	80	100			08834181734	
	120	100			08834181735	
	180	100			08834181737	
1/2 x 1-1/2 x 1/8 Use M-9 Mandrel	36	100			08834181739	
	50	100			08834181230	
	60	100	66261194484	77696089013	08834181744	66261185977
	80	100	66261194492	77696089014	08834181745	08834183460
1/2 x 2 x 1/8 Use M-10 Mandrel	100	100			08834181746	
	120	100	66261194495	77696089015	08834181747	08834183448
	180	100			08834181749	
	240	100			08834181750	
5/8 x 1-1/2 x 1/8 Use M-9 Mandrel	60	100			08834181754	
	80	100			08834181755	
	120	100			08834181757	
5/8 x 1-1/2 x 3/16 Use M-16 Mandrel	100	100			08834181776	
	120	100			08834181777	
	240	100			08834183313	
3/4 x 1-1/2 x 1/8 Use M-9 Mandrel	80	100			08834181444	
	60	100			08834181286	
	80	100			08834180886	
3/4 x 1-1/2 x 3/16 Use M-16 Mandrel	60	100			08834181808	
	80	100			08834181809	
	120	100			08834181811	
3/4 x 2 x 3/16 Use M-17 Mandrel	60	100			08834181820	
1 x 1-1/2 x 1/8 Use M-9 Mandrel	60	100			08834181240	
1 x 2 x 3/16 Use M-17 Mandrel	36	100			08834181875	
	60	100			08834181878	
	80	100			08834181879	

MERIT STOCK/NON-STOCK STATUS: Some Merit specialty part numbers are non-stock. Contact your Norton/Merit representative for stock/MTO status.

Refer to the back of this section for mandrels.



Tapered cone points are strips of abrasive cloth rolled and glued to form a solid shape that is designed to break down during use and reveal the next layer of abrasive. Tapered cone points are similar to cartridge rolls but their shape lends greater accessibility to many difficult-to-reach work areas. They are used for deburring holes and in close tolerance work areas.

- Applications: Used on inside surfaces and inside corners where other abrasive shapes cannot reach. Typically these are used on high-speed air grinders and are always mounted on a mandrel. Ideal for flash removal, polishing, or removing machine tool marks, and edge breaking.
- Grit Range: 50 - 320
- Abrasive Grain: Aluminum Oxide
- Backing: X-weight cotton
- Construction: Popular sizes and mandrels are listed, with additional sizes available upon request as made-to-order products
- Maximum RPM: Ceramic alumina, ceramic alumina blend, aluminum oxide plus, and silicon carbide cone points are available upon request as made-to-order products
- Machine Used:

APPLICATION/GRIT RECOMMENDATION GUIDE

COARSER (GRINDING)					FINER (FINISHING)			
36	40	50	60	80	120	180	240	320
Blending Out Heavy Machine Marks								
Removing Heavy Burrs								
Applying Heavy Scratch Pattern								
Removing Flash/Parting Lines								
Removing Rust/Scale/Pit Marks								
		Preparing Metal for Painting						
		Blending Out Medium Machine Marks						
				Blending Metal Surfaces				
				Applying Light Scratch Pattern				
						Fine Blending and Cleaning		
							Metal Finishing and Polishing	

MERIT ALUMINUM OXIDE TAPERED CONE POINTS

GOOD STARTING SPECIFICATION FOR FLASH REMOVAL, POLISHING, OR REMOVING MACHINE TOOL MARKS AND EDGE BREAKING ON ALL TYPES OF METAL IN DIFFICULT-TO-REACH WORK AREAS



FEATURES	BENEFITS
• Quality aluminum oxide abrasive	• Tough and durable
• Strong X-weight cotton backing construction	• For extended durability and even wear
• Durable resin bond system	• Provides longer life

TIER: GOOD			
BRAND: Merit			
TRADENAME: ALUMINUM OXIDE			
ABRASIVE: Aluminum Oxide			
SIZE (D x L x H)	GRIT	STD. PKG.	PART #
3/16 x 1 x 2-1/2" Use K-110 Mandrel	50	500	08834186892
	60	500	08834186893
	80	500	08834180918
	100	500	08834182197
	120	500	08834182199
	150	500	08834182200
	180	500	08834186894
	240	500	08834186895
	320	500	08834182855

TIER: GOOD			
BRAND: Merit			
TRADENAME: ALUMINUM OXIDE			
ABRASIVE: Aluminum Oxide			
SIZE (D x L x H)	GRIT	STD. PKG.	PART #
5/16 x 1-1/2 x 5" Use B-20 Mandrel	80	500	08834180873
	100	500	08834182043
	120	500	08834182717
	150	500	08834186890
	180	500	08834182535
	240	500	08834182044
	320	500	08834182537

Refer to next page for mandrels.

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COATED ABRASIVE SPECIALTIES – MANDRELS

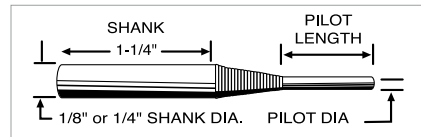
Cartridge and Spiral Roll Mandrels

MODEL #	PILOT DIA.	PILOT LENGTH	SHANK DIA.	SHANK LENGTH	OVERALL LENGTH	PART #
Cartridge and Spiral Roll Mandrels						
M-2E	3/32	3/4	1/4	1	3	08834183799
M-2	3/32	1	1/8	1	3	08834181202
M-3	1/8	1/2	1/8	1	2-1/2	08834181203
M-4	1/8	3/4	1/8	1	2-1/2	08834181204
M-5	1/8	1	1/8	1	2-3/4	08834181205
M-6	1/8	1-1/2	1/8	1	2-1/2	08834181206
M-7	1/8	1/2	1/4	1-1/4	2-1/4	08834181207
M-8	1/8	3/4	1/4	1-1/4	2-1/2	08834181208
M-9	1/8	1	1/4	1-1/4	2-3/4	08834181209
M-10	1/8	1-1/2	1/4	1-1/4	3-1/4	08834181210
M-11	1/8	2	1/4	1-1/4	4	08834181211
M-12	3/16	1/2	1/8	1-1/4	2-1/4	08834181212
M-13	3/16	3/4	1/8	1-1/4	2-1/2	08834181213
M-14	3/16	1/2	1/4	1-1/4	2-1/2	08834181214
M-15	3/16	3/4	1/4	1-1/4	2-3/4	08834181215
M-16	3/16	1	1/4	1-1/4	3	08834181216
M-17	3/16	1-1/2	1/4	1-1/4	3-1/2	08834181217
M-18	3/16	2	1/4	1-1/4	4	08834181218
M-19	1/4	1/2	1/4	1-1/4	2-1/2	08834181219
M-20	1/4	3/4	1/4	1-1/4	2-3/4	08834181220
M-21	1/4	1	1/4	1-1/4	3	08834181221
M-22	1/4	1-1/2	1/4	1-1/4	3-1/2	08834181222
M-23	1/4	2	1/4	1-1/4	4	08834181223
M-24	5/16	3/4	1/4	1-1/4	2-3/4	08834181224
M-25	5/16	1	1/4	1-1/4	3	08834181225
M-26	5/16	1-1/2	1/4	1-1/4	3-1/2	08834181226
M-27	5/16	2	1/4	1-1/4	4	08834181227

Standard Package = 1

Recommended Pilot Length for Mandrels

3/4 Roll Length	Use 1/2 Pilot
1 Roll Length	Use 3/4 Pilot
1-1/2 Roll Length	Use 1 Pilot
2 Roll Length	Use 1-1/2 Pilot



Extra Shank Length Mandrels

MODEL #	SHANK LENGTH	OVERALL LENGTH	PART NO.
Extras Shank Length Mandrels			
M-8-4	4	5-1/4	08834180116
M-8-6	6	7-1/4	08834180122
M-9-2.5	2-1/2	4	08834180096
M-9-3	3	4-1/2	08834180129
M-9-4	4	5-1/2	08834180074
M-9-6	6	7-1/2	08834180131
M-9-8	8	9-1/2	
M-10-4	1-3/4	4	08834180092
M-10-6	3-3/4	6	08834180145

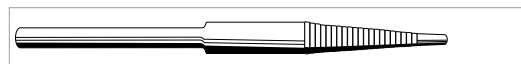
All Extra Shank Length mandrels are 1/4" diameter

Standard Package = 1

Tapered Cone Point Mandrels

DESCRIPTION	SHANK	PART #
Cone Point Mandrels		
A-10	1/4	08834181300
B-20	1/4	08834181301
C-30	1/4	08834181302
D-40	1/4	08834181303
E-50	1/4	08834181304
F-60	1/4	08834181305
G-70	1/4	08834181306
H-80	1/4	08834181307
I-90	1/4	08834181308
K-110	1/8	08834181310

Standard Package = 1



COATED ABRASIVE SPECIALTIES – TEST KITS

These test kits feature the most popular range and sizes of our coated specialty products in convenient kit formats. Ideal for small job shops, or for travelling to a job site. Our cartridge roll kits are great when you need a small quantity, but a wide range of grits and sizes



Merit Ceramic Alumina Cartridge Roll Test Kit

- Part # 66261066726
- Kit includes a variety of our Merit ceramic alumina cartridge rolls, spiral rolls and mandrels in popular sizes and grits.



Merit Aluminum Oxide Cartridge Roll Test Kit “CR”

- Part # 08834181061
- Includes over 120 pieces of our most popular sizes, grits and shapes with their appropriate mandrels.



Merit General Purpose Test Kit “GP”

- Part # 08834169025
- Includes samples of various Merit abrasive specialties. One of these kits could be worth the cost of the entire kit by solving your problems in deburring, polishing and grinding.




Merit Porting Test Kit “APK-MO”

- Part # 08834169032
- The samples in this kit highlight Merit specialties for general metal and wood working polishing and finishing applications.

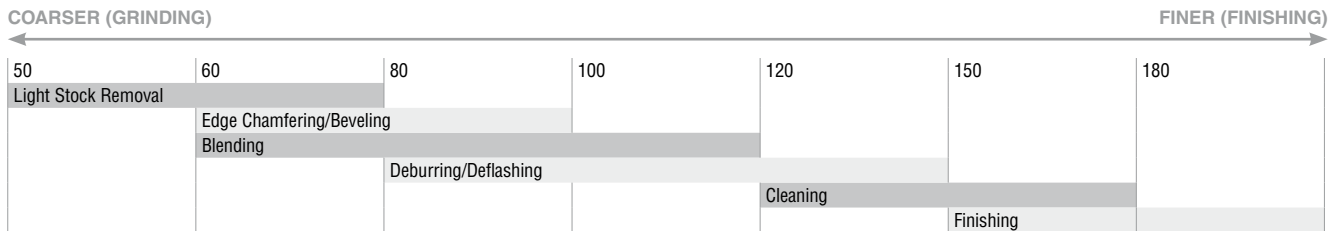
SQUARE & CROSS PADS, OVERLAP SLOTTED DISCS



Square pads, cross pads and overlap slotted discs are all used on high-speed pneumatic tools for deburring, blending, cleaning, and polishing applications. All of these abrasive specialties are designed for applications in small, tight, hard-to-access locations on parts that are being finished.

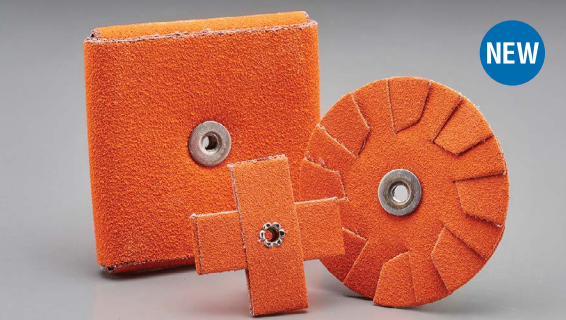
- Benefits:** Variety of shapes and sizes to fit application and part geometry
Shapes provide flexibility for the application, while eliminating aggressiveness of the sanding action
Cross pads allow visibility of the surface while sanding, to ensure correct amount of material is removed
- Grit Range:** 50 – 180
- Abrasive Grain:** Ceramic Alumina, Aluminum Oxide
- Backing:** X-weight cotton
- Construction:** Standard quick-change eyelet for easy mounting and removal on quick-change mandrel minimizes downtime; Mandrel use increases range and versatility
- Maximum RPM:** 1" Diameter – 25,000 3" Diameter – 12,000 to 14,000
1-1/2" to 2" Diameter – 18,000 to 23,000 4" Diameter – 8,000 to 12,000
2-1/2" Diameter – 14,000 to 18,000 5" to 6" Diameter – 5,500 to 7,500
- Machine Used:** 

APPLICATION/GRIT RECOMMENDATION GUIDE



NORTON BLAZE R920 CERAMIC ALUMINA

BEST CHOICE FOR HARD-TO-GROUND MATERIALS INCLUDING SUPER ALLOYS (COBALT, INCONEL, AND TITANIUM) AND STAINLESS STEEL



FEATURES	BENEFITS
<ul style="list-style-type: none"> Next-generation ceramic alumina abrasive grain 	<ul style="list-style-type: none"> Significantly faster cut rates versus any other abrasive Resists wear, resulting in 50%-300% longer life Greatest productivity; lowest total cost
<ul style="list-style-type: none"> Advanced grinding aid 	<ul style="list-style-type: none"> Cooler cutting, longer life
<ul style="list-style-type: none"> Improved resin bond system 	<ul style="list-style-type: none"> Improved grain retention and longer life

NORTON METAL R265 ALUMINUM OXIDE

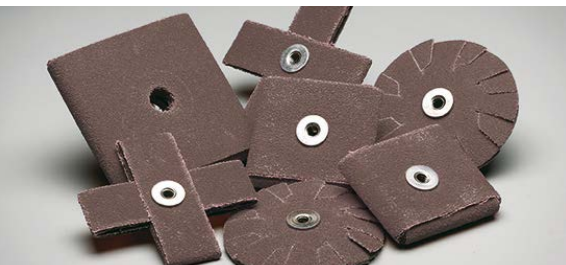
GOOD CHOICE WHEN INITIAL PRICE IS A KEY PURCHASING CRITERIA



FEATURES & BENEFITS
<ul style="list-style-type: none"> Our solid-performance aluminum oxide grain makes these specialties a good starting specification with consistent performance for small jobs or anywhere performance need not be measured

MERIT ALUMINUM OXIDE

GOOD FOR MOST ID DEBURRING AND POLISHING APPLICATIONS

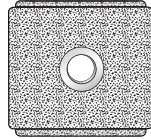


FEATURES	BENEFITS
<ul style="list-style-type: none"> Quality aluminum oxide abrasive grain 	<ul style="list-style-type: none"> Versatile; ideal for deburring, chamfering, and polishing most radii, holes, recesses, and cylinder walls
<ul style="list-style-type: none"> Resin bond system 	<ul style="list-style-type: none"> Good grain retention and life

SQUARE & CROSS PADS, OVERLAP SLOTTED DISCS



Square Pads



Square Pads

- Corners wear down consistently exposing fresh abrasive; the pad becomes round for less aggressive stock removal
- Grind almost as fast as hard wheels, but are much smoother and easier to control
- For quick blending of channels, fillets, corners, or spotting flat surfaces

Refer to the back of this section for mandrels.



TIER:	BEST	GOOD	GOOD
BRAND:	Norton	Norton	Merit
TRADENAME:	BLAZE R920	METAL R265	ALUMINUM OXIDE
ABRASIVE:	Ceramic Alumina	Aluminum Oxide	Aluminum Oxide
OTHER:	Supersize		

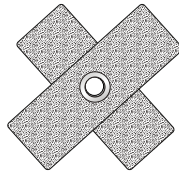
SIZE (L x W x T)	EYELET	GRIT	STD. PKG.	PART #	PART #	PART #
1 x 1 x 6 ply	8-32	80	100			08834184826
1 x 1 x 8 ply	8-32	60	100			
		80	100			08834184124
		120	100			
1 x 1 x 1/4	8-32	60	100		66261132258	
		80	100		66261132259	
		120	100		66261132262	
1-1/2 x 1-1/2 x 1/2	1/4-20	60	100			08834184463
		80	100			08834184125
2 x 2 x 1/2	1/4-20	60	100	66261194520	66261132263	08834184334
		80	100	66261194552	66261132264	08834184397
		120	100	66261194554	66261132265	
2 x 2 x 3/4	1/4-20	50	100			
		80	100			08834184394
3 x 3 x 1/4	1/4-20	60	100	66261194531	66261132266	
		80	100	66261194555	66261132268	
		120	100	66261194556	66261132269	
3 x 3 x 1/2	1/4-20	50	100			08834182152
		60	100	66261194528	66261132270	08834182057
		80	100	66261194557	66261132271	08834184336
		120	100	66261194558	66261132272	

MERIT STOCK/NON-STOCK STATUS: Some Merit specialty part numbers are non-stock. Contact your Norton/Merit representative for stock/MTO status. Ceramic Alumina and Alumina Oxide Plus square pads are also available upon request as made-to-order products.

SQUARE & CROSS PADS, OVERLAP SLOTTED DISCS



Cross Pads



Cross Pads

- The shape of cross pads enables you to see through to the contact area, and provides greater flexibility than square pads to conform to variable internal diameters
- Used for close-tolerance polishing of small radii and channels, deburring, and finishing of bell-mouth configurations
- All pads are furnished with standard quick-change eyelet, as listed
- Plain hole sizes must be specified and are available for quotation as made-to-order products



TIER:	BEST	GOOD	GOOD
BRAND:	Norton	Norton	Merit
TRADENAME:	BLAZE R920	METAL R265	ALUMINUM OXIDE
ABRASIVE:	Ceramic Alumina	Aluminum Oxide	Aluminum Oxide
OTHER:	Supersize		

SIZE (L x W x T)	PLY	EYELET	GRIT	STD. PKG.	PART #	PART #	PART #
3/4 x 3/4 x 3/8	8	3-48	80	100			08834185578
			60	100		66261132230	08834184943
			80	100		66261132231	08834185519
1 x 1 x 3/8	8	3-48	100	100			08834184195
			120	100		66261132232	08834185164
			60	100	66261194496	66261132233	08834184258
			80	100	66261194508	66261132234	08834184465
1-1/2 x 1-1/2 x 1/2	8	8-32	100	100			08834182196
			120	100	66261194511	66261132235	08834182148
			60	100		66261132236	08834182156
			80	100		66261132237	08834182157
2 x 2 x 1/2	8	8-32	120	100			08834182132
			60	100	66261194502	66261132239	08834184128
			80	100	66261194513	66261132240	08834184194
2 x 2 x 3/4	8	8-32	120	100	66261194516	66261132241	
			60	100			08834184402
			80	100			08834184206
2-1/4 x 2-1/4 x 1/2	8	8-32	80	100			08834182135
2-1/2 x 2-1/2 x 3/4	8	8-32	80	100			08834184119
3 x 3 x 1	8	1/4-20	60	100	66261194504	66261132242	08834182116
			80	100	66261194549	66261132243	08834184119
			120	100	66261194551	66261132244	08834184116
3 x 3 x 1	10	1/4-20	80	100			08834182140
3 x 3 x 1-1/2	10	1/4-20	80	100			08834182184
4 x 4 x 1	8	1/4-20	60	100			08834184142
			80	100			08834184135
			120	100			08834184377
4 x 4 x 1-1/2	8	1/4-20	80	100			08834184129

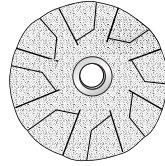
MERIT STOCK/NON-STOCK STATUS: Some Merit specialty part numbers are non-stock. Contact your Norton/Merit representative for stock/MTO status.

Ceramic Alumina and Alumina Oxide Plus cross pads are also available upon request as made-to-order products.

Refer to the back of this section for mandrels.

SQUARE & CROSS PADS, OVERLAP SLOTTED DISCS

Overlap Slotted Discs



Overlap Slotted Discs

- Used for deburring and polishing radii, holes and cylinder walls
- Our "2 to a set" configuration cuts on the inward motion only
- The "4 to a set" configuration, assembled back to back, cuts on both the inward and outward motions
- All discs are furnished with standard quick-change eyelet
- Plain hole sizes must be specified and are available for quotation as made-to-order products



TIER:	BEST	GOOD	GOOD	GOOD
BRAND:	Norton	Norton	Merit	Merit
TRADENAME:	BLAZE	METAL R265	ALUMINUM OXIDE	SILICON CARBIDE
ABRASIVE:	Ceramic Alumina	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
OTHER:	Supersize, 2 Per Set	2 Per Set	2 Per Set	4 Per Set

DIA.	EYELET	GRIT	STD. PKG.	PART #	PART #	PART #	PART #
1	8-32	60	100			08834184346	
		80	100			08834184019	08834184085
		100	100			08834184224	
		120	100			08834184151	08834184236
1-1/4	8-32	60	100			08834184270	
		80	100			08834184065	
		100	100			08834184291	
		120	100			08834184084	
1-1/2	8-32	60	100	66261195051	66261132288	08834184066	
		80	100	66261195368	66261132289	08834184079	
		100	100			08834184279	08834184023
		120	100	66261195367	66261132290	08834186035	
1-3/4	8-32	60	100			08834184655	
		80	100			08834184042	
		100	100				
2	8-32	60	100	66261195054	66261132291	08834184076	
		80	100	66261195055	66261132292	08834184145	
		100	100			08834184055	
		120	100	66261195056	66261132293	08834184444	
2-1/2	8-32	80	100			08834184041	
		100	100			08834184077	
		120	100	66261195057	66261132294	08834184082	
		100	100	66261195058	66261132295	08834184344	
3	1/4-20	60	100			08834184000	
		80	100			08834185155	
		100	100	66261195059	66261132296	08834184431	
4	1/4-20	60	100				
		120	100				
4-1/2	1/4-20	100	100				

MERIT STOCK/NON-STOCK STATUS: Some Merit specialty part numbers are non-stock. Contact your Norton/Merit representative for stock/MTO status.

All overlap slotted discs are available (made-to-order) reinforced with a fiber washer

Ceramic Alumina and Alumina Oxide Plus overlap slotted discs are also available upon request as made-to-order products.

Quick-Change Mandrels for Overlap Slotted Discs, Square and Cross Pads

CROSS PAD SIZE DIA.	SQUARE PAD SIZE DIA.	OAL	MODEL NO.	THD. SIZE	PART #
1/4, 3/8, and 1/2 wide		2-1/2	MM48-4	3-48	08834183162
3/4, 1 wide	Up thru 1-1/2 sq. x 1/2 thick 2 sq. x 1/4 or 3/8 thick	3	MM32-4	8-32	08834183163
		4	MM-32-4-4	8-32	08834121680
		6	MM-32-4-6	8-32	08834121681
		3	MM20-4	1/4-20	08834183164

All pads 2-1/2 x 1-1/2 and larger

2 sq. x 1/4 or 1/2 thick and larger

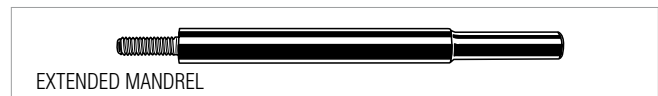
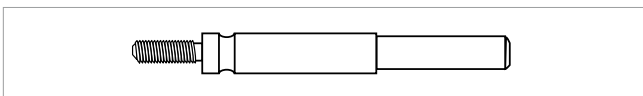
3

MM20-4

1/4-20

08834183164

For overlap slotted discs, choose a mandrel with the same thread size as the disc





Flaps of abrasive cloth are stacked, inserted into a holder, and then attached to a mandrel. The flaps are designed to break down during use and reveal the next layer of abrasive.

To create an interleaf bore polisher, cloth flaps are mixed with non-woven flaps.

Applications: For deburring, sizing, cleaning and polishing the interior diameters of cylinders, tubes and hydraulic fittings. Flaps adjust automatically to inside diameter, polishing the entire surface area with each pass.
Bore polishers are self-centering, so they apply equal pressure to full wall of inside diameter. Spring action design gives faster inside diameter cleaning, deburring and polishing to cylinders, deep bores and tubes.
Interleafed bore polishers are designed to polish and finish in one easy application. The abrasive flaps cut, while the non-woven flaps apply a fine finish.

Grit Range: 60 - 240
Abrasive Grain: Aluminum Oxide
Machine Used:

APPLICATION-TO-PRODUCT SHAPE RECOMMENDATION GUIDE

Shape		Application
	Bore Polisher Solid Flaps B-3 Series	<ul style="list-style-type: none"> For 5/8" to 1" interior diameter bores 3 abrasive packs 1-1/2" wide, bonded to hub Use with QC-5 mandrel Part # 08834154182
	Bore Polisher Solid Flaps B-4 Series	<ul style="list-style-type: none"> For 1" to 4" interior diameter bores 4 abrasive packs 1-1/2" wide, bonded to hub Use with BPM-4 mandrel Part # 08834154183
	Bore Polisher Solid Flaps B-8 Series	<ul style="list-style-type: none"> For 2" to 5-7/8" interior diameter bores 8 abrasive packs 1-1/2" wide, bonded to hub Use with BPM-8 mandrel Part # 08834154184
	Bore Polisher Scored Flaps	Available upon request as made-to-order products.
	Bore Polisher Interleaf	Cloth flaps are mixed with non-woven flaps. Merit interleaf bore polishers do double duty. Designed to polish and finish in one easy application, they are the ideal choice when close tolerances must be maintained, while giving an interior a polished finish.

APPLICATION/GRIT RECOMMENDATION GUIDE

COARSER (MATERIAL REMOVAL)		FINER (FINISHING)	
←		→	
60	80	120	180
Blending Out Medium Machine Marks			
Sizing Cylinders			
		240	
		Fine Blending and Cleaning	
		Metal Finishing and Polishing	
← SOLID FLAP		SCORED INTERLEAF →	

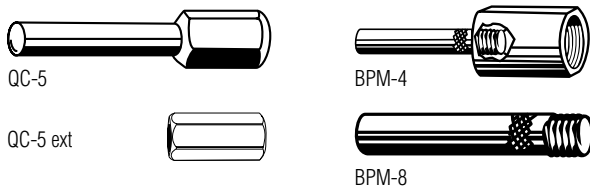
Merit Aluminum Oxide Bore Polishers

TIER: **GOOD**
 BRAND: Merit
 TRADENAME: **ALUMINUM OXIDE**
 ABRASIVE: Aluminum Oxide
 BACKING: X-Weight Cotton/Poly

DESCRIPTION	GRIT	MAX. RPM	STD. PKG.	PART #
Bore Polishers – Solid Flap B-3 and B-4 Series				
B-305	60	25,000	10	08834154190
Fits ID 5/8 to 1	80	25,000	10	08834154191
	120	25,000	10	08834154193
	180	25,000	10	08834154195
	240	25,000	10	08834154197
B-405	60	22,000	10	08834154091
Fits ID 1 to 1-1/2	80	22,000	10	08834154092
	120	22,000	10	08834154093
	180	22,000	10	08834154094
B-410	60	20,000	10	08834154100
Fits ID 1-1/2 to 2	80	20,000	10	08834154101
	120	20,000	10	08834154102
	180	20,000	10	08834154103
	240	20,000	10	08834154104
B-415	60	16,000	10	08834154109
Fits ID 2-1/8 to 2-1/2	80	16,000	10	08834154110
	120	16,000	10	08834154111
	180	16,000	10	08834154112
	240	16,000	10	08834154113*
B-420	60	15,000	10	08834154118
Fits ID 2-1/2 to 3	80	15,000	10	08834154119
	120	15,000	10	08834154120
	180	15,000	10	08834154121
	240	15,000	10	08834154122
B-425	60	10,000	10	08834154127
Fits ID 3-1/8 to 4	80	10,000	10	08834154128
	120	10,000	10	08834154129
	180	10,000	10	08834154130
	240	10,000	10	08834154131*

* Non-stock. All other bore polishers, mandrels, and kit are stock products.

Mandrels for Bore Polishers



DESCRIPTION	MODEL NO.	THREAD	STD. PKG.	PART #
For B-3 Series	QC-5	5/16-18	1	08834154182
For B-4 Series	BPM-4	1/2-20	1	08834154183
For B-8 Series	BPM-8	1/4-20	1	08834154184

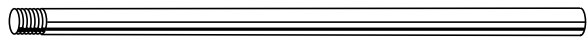
TIER: **GOOD**
 BRAND: Merit
 TRADENAME: **ALUMINUM OXIDE**
 ABRASIVE: Aluminum Oxide
 BACKING: X-Weight Cotton/Poly

DESCRIPTION	GRIT	MAX. RPM	STD. PKG.	PART #
Bore Polishers – Solid Flap B-8 Series				
B-810	60	16,000	10	08834154136
Fits ID 2 to 2-1/2	80	16,000	10	08834154137
	120	16,000	10	08834154138
	180	16,000	10	08834154139*
	240	16,000	10	08834154140*
B-815	60	15,000	10	08834154145
Fits ID 2-5/8 to 3	80	15,000	10	08834154146
	120	15,000	10	08834154147
	180	15,000	10	08834154148*
	240	15,000	10	08834154149*
B-820	60	10,000	10	08834154154
Fits ID 3-1/8 to 4	80	10,000	10	08834154155
	120	10,000	10	08834154156
	180	10,000	10	08834154157
	240	10,000	10	08834154158*
B-825	60	8,000	10	08834154163
Fits ID 4-1/4 to 5-1/4	80	8,000	10	08834154164
	120	8,000	10	08834154165
	180	8,000	10	08834154166
	240	8,000	10	08834154167
B-830	60	8,000	10	08834154172
Fits ID 5-1/4 to 5-7/8	80	8,000	10	08834154173
	120	8,000	10	08834154174
	180	8,000	10	08834154175
	240	8,000	10	08834154176

Bore Polishers – Scored Flaps
 Available on request as made-to-order products

Bore Polishers – Interleaf				
B-405 Interleaf	80	22,000	10	08834150271
Fits ID 1 to 1-1/2	180	22,000	10	08834150273

Extension Mandrels for Bore Polishers



DIAMETER x LENGTH	MODEL NO.	THREAD	STD. PKG.	PART #
1/4 x 4	EM-144	1/4-20	1	08834154185
1/4 x 6	EM-146	1/4-20	1	08834154186
1/4 x 8	EM-148	1/4-20	1	08834154187

To extend a B-4 series bore polisher, attach the adapter piece of the BPM-4 mandrel to the bore polisher, then attach the desired length extension mandrel above to the BPM-4 adapter piece. To extend a B-8 series bore polisher, attach the desired length extension mandrel above directly to the bore polisher.

Test Kit

Merit Bore Polisher Test Kit "BP"

- Part # 08834154181
- Contains ten bore polishers and two mini 1/4"-20 thread flap wheels in assorted sizes and grits for finishing 1" to 5" interior diameters, and mandrel for 1/4" chuck.



Coated Abrasives

A coated abrasive product is made up of three basic raw materials: an abrasive mineral, the backing onto which the abrasive is applied, and an adhesive bond.

Abrasive Types

Emery (6)

Emery is a dark gray, round-shaped grain which tends to polish rather than abrade a work surface.

- For polishing and cleaning metal only

Garnet (5)

Garnet is reddish brown in color. This natural abrasive is medium hard and relatively sharp, but not as durable as synthetic abrasives.

- For use on wood only
- Particularly good for soft woods such as pine
- Produces an excellent finish

Silicon Carbide (4)

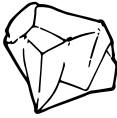
Silicon carbide is the hardest and sharpest of the manufactured abrasives. Because of its extreme sharpness, this bluish-black abrasive grain permits fast stock removal and cool cut.

- Cast iron
- Non-ferrous metals, i.e. brass, aluminum and bronze
- Non-metallics, i.e. glass, rubber, plastic and stone
- Final finish on wood and stainless steel
- Abrasive planing particleboard

Light Brown Aluminum Oxide (2)

Light brown aluminum oxide is a tough, yet sharp synthetic abrasive characterized by cool cut, long life and the ability to break down under pressure, producing new cutting edges.

- Production wood sanding
- Non-ferrous metal finishing



Brown Aluminum Oxide (2, 7)

Brown aluminum oxide is a tough, durable, synthetic abrasive characterized by the long life and wear resistance of its cutting edges. It offers enormous penetrating strength, even at high speeds.

- Ferrous metals
- Aluminum
- Hardwood



Heat-treated Aluminum Oxide (2)

Heat-treated aluminum oxide is a tough but cool cutting abrasive which gives both long life and freeness of cut on a wide range of materials.

- Ferrous metals
- Wood sanding



Zirconia Alumina (8)

Zirconia alumina is an ultra-tough, synthetic abrasive which provides a free, cool cut for high stock removal applications. It is tougher and sharper than aluminum oxide. It has a micro-crystalline structure which allows for controlled breakdown and self-sharpening.

- Heavy-duty snagging and grinding of all ferrous and non-ferrous metals
- Abrasive planing of wood, plywood and particleboard
- Grinding fiberglass, rubber and plastics



Ceramic Alumina (9)

The sub-micron structure of ceramic alumina allows each grain to continually expose sharp cutting points, resulting in a cooler cutting action and an extended life.

- All ferrous/non-ferrous metals, carbon steel and exotic alloys



Backing Types

Backings are the base for the abrasive minerals and, combined with the adhesive bond, support and anchor the abrasive mineral. The backings used in the manufacture of coated abrasives are:

Paper

Due to the fine surface of paper, a consistent finish is produced. Paper weights include *A, B, C, D, E* and *F* weights with *A* being the lightest and most flexible and *F* being the heaviest and least flexible. *A, B, C* and *D* weight papers are used for hand sanding and light mechanical operations in the form of sheets, PSA (pressure sensitive adhesive) and hook and loop discs and sheet rolls. *E* and *F* weight papers are primarily used for more aggressive mechanical operations in the form of belts and discs.

Cloth

Cloth backings used for coated abrasives are identified by weight. Cloth backings are filled or "finished" with a variety of materials (glues or resins) to create various backing characteristics, most notably flexibility. Several cloth types are used: cotton, polyester, polyester/nylon and polyester/cotton blends, and rayon.

There are three basic weights of cloth: J-weight or "jeans" is the lightest and most flexible. X-weight or "drills" is a heavier cloth that ranges in flexibility, strength and durability and is used on the broadest range of applications. Y-weight is a heavyweight drills cloth used on heavy-duty, high stock removal operations.

Fiber

Vulcanized fiber (cotton fibers which are chemically treated and then pressed under temperature and pressure to form a very durable backing) is used exclusively as the backing for resin fiber discs.

Film

Polyester film backing comes in 3 mil. and 5 mil. thicknesses, which have high strength and surface smoothness. They are used primarily in disc and roll applications requiring consistent surface finish.

Foam

Primarily used as backing for sponges, finer grit finishing discs, and buffing and polishing pads for cleaning and moist finishing applications.

Bond Types

An adhesive bond system is required to secure the abrasive mineral to the backing. All coated abrasive products are made with a two stage bonding process, the *make coat* and the *size coat*.

The *make coat* is the first layer of bond applied to the backing. The make coat provides the adhesive base between the abrasive mineral and the backing.

The *size coat* is the second coat, which is applied over the abrasive mineral and make coat to anchor the abrasive mineral and provide the desired physical strength of the finished product.

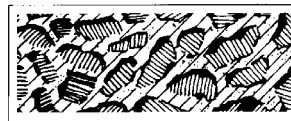
Glue, urea resin, and phenolic resin are the three basic bonding agents most commonly used. There are many size coat and make coat combinations, such as *glue over glue, urea over glue, and resin over resin*. *Glue over glue* is the most flexible bond while *resin over resin* bond is moisture-resistant, harder, less flexible, heat-resistant and has superior grain retention.

Coating Types

There are two types of abrasive coatings used in the manufacturing of coated abrasives: *open coat* and *closed coat*.

Open Coat

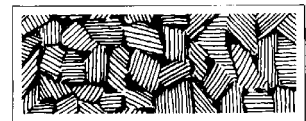
With an open coat, 50% to 75% of the surface is covered by abrasive grain. There are evenly spaced voids between the particles of grain, helping reduce the effect of loading caused by wood dust or metal particles.



OPEN COAT
(1/3 LESS GRAIN THAN CLOSED)

Closed Coat

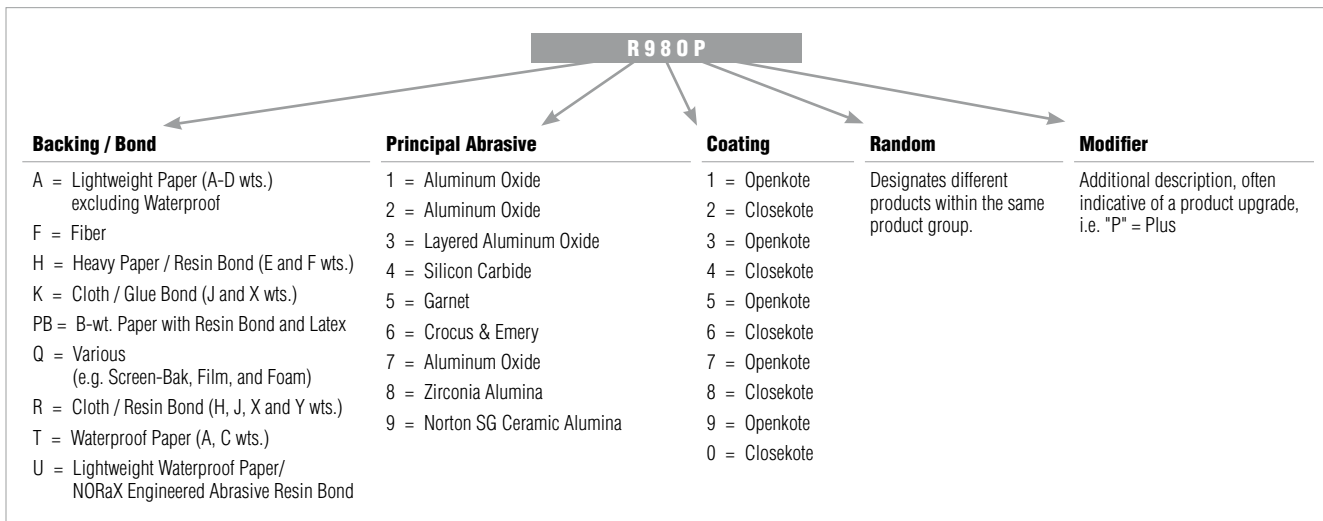
With a closed coat, the entire surface is covered with abrasive grain, with no voids between the particles. This is the most typical coating, permitting the greatest degree of stock removal and longest product life.



CLOSED COAT

How to Read a Coated Abrasive Specification

The Norton coated abrasive marking system includes both a generic and a technical marking, which identifies the actual components which make up the product. The markings identify the tradename, abrasive type, bond, backing, and any special features. An example would be: Norton Blaze R980P.



Coated Abrasive Grit Comparison Chart

AVERAGE PARTICLE SIZE IN MICRONS	GRADING SYSTEMS (OTHER THAN EMERY)			EMERY PRODUCTS
	ANSI	FEPA	JIS	
5.0	-	-	-	-
6.0	-	-	3000	-
6.5	1200	-	2500	4/0
8.4	-	P2500	-	-
8.5	-	-	2000	-
9.2	1000	-	-	3/0
10.3	-	P2000	-	-
10.5	-	-	1500	-
12.2	800	-	1200	-
12.6	-	P1500	-	-
15.0	-	-	-	-
15.3	-	P1200	1000	-
16.0	600	-	-	2/0
18.3	-	P1000	800	-
19.7	500	-	-	0
20.0	-	-	-	-
21.8	-	P800	-	-
23.6	400	-	600	-
25.0	-	-	-	-
25.75	-	P600	-	-
28.8	360	-	500	-
30.0	-	P500	-	-
35.0	-	P400	400	-
36.0	320	-	-	-
40.0	-	-	360	-
40.5	-	P360	-	-
44.0	280	-	-	1
45.0	-	-	-	-
46.2	-	P320	320	-
50.0	-	-	-	-
52.5	-	P280	280	-
53.5	240	-	-	-
55.0	-	-	-	-
58.5	-	P240	-	-
60.0	-	-	240	-
64.0	-	-	-	2
65.0	-	P220	220	-
66.0	220	-	-	-
78.0	180	P180	180	-
79.0	-	-	-	3
93.0	150	-	150	-
95.0	-	-	-	FINE
97.0	-	P150	-	-
116.0	120	-	120	-
127.0	-	P120	100	-
136.0	-	-	-	MEDIUM
141.0	100	-	-	-
156.0	-	P100	-	-
189.0	-	-	-	COARSE
192.0	80	-	80	-
197.0	-	P80	-	-
260.0	-	P60	-	-
268.0	60	-	60	-
326.0	-	P50	50	-
341.0	-	-	-	EX. COARSE
351.0	50	-	-	-
412.0	-	P40	40	-
428.0	40	-	-	-
524.0	-	P36	-	-
535.0	36	-	36	-
622.0	-	P30	-	-
638.0	30	-	30	-
715.0	24	-	-	-
740.0	-	P24	24	-
905.0	20	-	-	-
984.0	-	P20	20	-
1320.0	16	-	16	-
1324.0	-	P16	-	-
1764.0	-	P12	-	-
1842.0	12	-	-	-

Coated Abrasive Storage

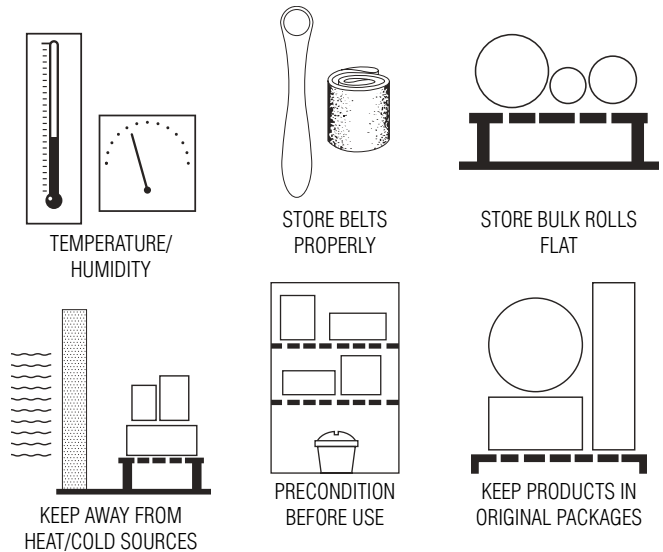
Stored under proper conditions, coated abrasives will retain their efficiency and usefulness over long periods. Improper or inadequate storage can introduce problems of weakened bond, curl, brittleness, and breakage.

Temperature and humidity are the two most important climatic factors influencing coated abrasive performance. Backings and adhesives are sensitive to climatic changes and will gain or lose moisture according to the relative humidity of their surroundings.

Excessive humidity may cause a softening of some types of adhesive bonds so that the product quickly fills and clogs, or loses its grain during use. Excessive dryness may cause brittleness, reduced flexibility, and distortion of product shapes.

As moisture in the coated abrasive product increases or decreases, dimensional changes can occur. When the backing changes more than the adhesive bond, it causes cupping. High and low humidity can cause concave and convex cupping respectively.

The newer synthetic-backed belts are not affected by moisture. Broad temperature swings will not permanently harm these products either, but cold temperatures will cause a "cold set" condition. Consequently, these products should be allowed to come to room temperature before use.



Storage Facilities

The ideal storage (stock) room for coated abrasives would be one in which all the walls are inside partitions, rather than the outside walls of the building.

- Constant levels of humidity and temperature should be maintained. Stockroom temperature should be 60-degrees to 80-degrees F and relative humidity between 35 and 50%.
- Cartons should be kept away from damp or cold walls and floors, where they might absorb moisture.
- Store coated abrasives away from heat sources – steam heated radiators, steam pipes, hot air inlets, heat ducts, or rooms near furnaces or ovens.
- Keep products in original packages. These packages facilitate handling and can be stacked in the most practical and convenient manner.
- Bulk rolls should not be allowed to stand on edge after they have been unpacked. Store flat on shelves or pallets.
- Narrow belts which have been removed from the carton should be rolled up and stored on edge on a clean shelf. Belts may be draped over a large cylinder, such as a gallon can, brake drum, or flanged hanger of the type used for a garden hose. Never hang a belt from a nail – the backing will crease and the abrasive belt might crack. Wide belts should be hung over a tube of at least 4" diameter. Center the belt joint over the tube and add a light weight (such as old packaging tubes) to the bottom loop of the belt to aid in removing set. Condition for 24 hours prior to use.
- For maximum product efficiency, precondition coated abrasive products in a chamber of controlled temperature and humidity before use.

we've surfaced
faster solutions
**THAT WORK HARD
AND PAY BETTER**

For stripping, deburring, blending, finishing, or polishing surfaces and coatings, Norton Bear-Tex non-woven innovations reduce steps and improve surface finish.



**CLEAN
BOND**[®]
TECHNOLOGY

Our patented Clean Bond Technology eliminates smearing.



Strip Away Old Ideas

Quick and easy rough cleaning and stripping of scale and heavy stock on a variety of materials while maintaining its non-loading feature.



Prep for the Future

For cleaning and conditioning: gain higher material removal, longer life and consistent, smear-free finishes - even on high nickel content alloys.



Blending In is Easy

Polishing and blending with Norton Rapid Blend unified discs and wheels leave a smear-free finish in fewer steps.



Eliminate the Guesswork

Get the perfect combination of life, cut, and smear-free finish, with our color-coded (by application and abrasive type) GP convolute wheels.

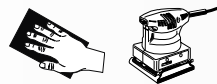


HAND PADS, ROLLS AND SPONGES



Surface finishing hand pads and rolls are made of a non-woven nylon web impregnated with abrasive grain and resin bond.

- Applications:** Light- to heavy-duty cleaning, deburring, blending, polishing, and finishing of metal, wood, composite, plastics, stone, solid surface and painted surfaces.
- Abrasive Grain:** Aluminum Oxide, Silicon Carbide
- Grit Range:** Medium (M), Fine (F), Very Fine (VF), Ultra Fine (UF), Micro Fine (MF), Non-Abrasive (-)
- Hand Pad Features:**
- Flexible; conform to work surface
 - Gentle action easily removes flashing or burrs without affecting dimension of workpiece
 - Non-loading; constant supply of new cutting edges
 - Non-rusting; no workpiece contamination
 - Resilient construction; long life, increased productivity; solvent resistant; waterproof
- Sponge Pad Features:**
- Non-woven material is laminated to a long-lasting sponge for the convenience of 2 pads in one
 - Superior replacement for steel wool
- Roll Features:**
- Economical alternative to cut pads
 - Can be cut to specific sizes
- Machine Used:**



APPLICATION/GRIT RECOMMENDATION GUIDE

	← MORE AGGRESSIVE, ROUGHER FINISH					→ LESS AGGRESSIVE, FINER FINISH					
PRODUCT #:	#740	#746	#644	#747	#796	#635	#748	Thin-Flex VF	Thin-Flex UF	Thin-Flex BP	#456
COLOR:	Dark Tan	Gray	Maroon	Maroon	Green	Gray	Gray	Maroon	Gray	Gold	White
DESCRIPTION:	Heavy Duty	Blending	GP - Fine	GP Plus - Very Fine	Scouring	Clean & Finish	Final Shine	Cleaning	Cleaning	Blend Prep	Cleaning
ABRASIVE:	AO	SC	AO	AO	AO	SC	SC	AO	SC	AO	Non-Abrasive
GRIT SIZE:	Medium 100 - 150	Medium 100 - 150	Fine 180 - 220	Very Fine 240 - 360	Very Fine 240 - 360	Ultra Fine 400 - 600	Micro Fine 800 - 1200	Very Fine 240 - 360	Ultra Fine 400 - 600	Micro-Fine 800 - 1200	Non-Abrasive - - -
STEEL WOOL EQUIVALENT:	4 Extra Coarse	3 Coarse	2 Medium Coarse	1 Medium	0 Fine	00 Very Fine	00 Very Fine	00 Very Fine	000 Extra Fine	000 Extra Fine	0000 Super Fine
APPLICATIONS:	<ul style="list-style-type: none"> • Smear-free Clean Bond technology • 2X life • Most durable and aggressive cutting pad • Heavy-duty removal » rust » oxidation • Deburring 	<ul style="list-style-type: none"> • Blending and deburring » welds » aluminum » stainless 	<ul style="list-style-type: none"> • Cleaning and deburring » machinery » metal parts » plastic » solid surface » stone 	<ul style="list-style-type: none"> • Light cleaning, deburring and finishing » machinery » metal parts » plastic » solid surface » stone 	<ul style="list-style-type: none"> • Removing stains, marks, rust, corrosion or oxidation from stainless equipment • Light cleaning of metal surfaces 	<ul style="list-style-type: none"> • Light cleaning and finishing of most surfaces » steel, aluminum » denibbing plastic » scuffing acrylics 	<ul style="list-style-type: none"> • Final finishing » final rub on wood » final blend on metal » final finish on plastics and acrylics 	<ul style="list-style-type: none"> • Maximum flexibility for consistent finishes • Cleaning blending, finishing, and deburring in woodwork, metalwork, MRO, and synthetic applications 	<ul style="list-style-type: none"> • Maximum flexibility for consistent finishes • Cleaning blending, finishing, and deburring in woodwork, metalwork, MRO, and synthetic applications 	<ul style="list-style-type: none"> • Fine cleaning • Fine polishing (most surfaces) • Top coat finishing (water-based and solvent) 	<ul style="list-style-type: none"> • Scratch-free cleaning » metal » fiberglass » stone » solid surface » ceramic • Wood » high-lighting » rubbing

CROSS REFERENCE GUIDE

	← COARSER									→ FINER	
NORTON	#740	#746	#644	#747/847	#796	#635	#748	Thin-Flex VF	Thin Flex UF	#456	
3M	7440	7446	64659	7447/8447 Production Hand Pad	96	64660	7448	Multi-Flex Maroon	Multi-Flex Gray	7445	
Camel	Tan	-	-	Maroon	Green	-	Gray	-	-	White	
Mirka	-	-	-	Maroon/Red VF	-	-	-	Mirlon Total Maroon	Mirlon Total Gray	-	
Sait	Brown	-	-	Maroon	Green	-	Gray	-	-	-	
SIA	6912 Brown	6712 Grey	-	6912 Maroon	6312 Green	-	-	-	-	-	
Standard	HD-Tan AO	-	-	GP-Maroon VF	Green-AO	HP-VF	UF Gray	-	-	Cleaning White	

HAND PADS, ROLLS AND SPONGES

SIZE (W x L)	COLOR	DESCRIPTION	ABRASIVE	GRIT SIZE	TIER: BEST			TIER: BETTER			TIER: GOOD		
					STANDARD	BRAND	PART #	STANDARD	BRAND	PART #	STANDARD	BRAND	PART #
Hand Pads													
4-1/2 x 9	Maroon	Thin Flex Cleaning Pad	A/O	VF	25	66623398062							
	Grey	Thin Flex Cleaning Pad	S/C	UF	25	66623398063							
	Gold	Thin Flex Blend Prep	A/O	MF	25	66261113519							
6 x 9	Dark Tan	740 Heavy-Duty Pad	A/O	Med	40						66261074000		
	Gray	746 Blending Pad	S/C	Med	40						66261074600		
	Maroon	777 General Purpose Very Fine Pad	A/O	VF	60						66261077700		
	Maroon	747 General Purpose Plus Pad	A/O	VF	60				66261074700				
	Maroon	847 General Purpose Plus Perforated Pad	A/O	VF	60				66261084700				
	Green	796 Scouring Pad	A/O	VF	60						66261079600		
	Lt. Green	696 Food Pro Pad	A/O	VF	60						66261069600		
	Gray	851 General Cleaning Pad	S/C	VF	40						66261085100		
	Gray	635 Clean & Finish Pad	S/C	UF	60						66261063500		
	Gray	748 Final Shine Pad	S/C	MF	60						66261074800		
	White	456 Cleaning Pad	None	-	60						66261045600		
Hand Pad Holder													
3-1/4 x 5-1/2	N/A	Hand Pad Holder										66261047583	
Rolls													
4" x 30 Ft.	Maroon	High Strength Roll	A/O	M	3				66261006358				
	Dark Tan	740 Heavy-Duty Roll IMPROVED!	A/O	M	3							66261010081	
	Maroon	644 General Purpose Fine Roll	A/O	F	4							66261058364	
	Maroon	777 General Purpose Very Fine Roll	A/O	VF	4				66261006373			66261058361	
	Maroon	747 General Purpose Plus Roll	A/O	VF	4				66261051701				
	Gray	851 General Cleaning Roll	S/C	VF	4							66261058360	
	Gray	635 Clean & Finish Roll	S/C	UF	5							66261058357	
6" x 30 Ft.	Maroon	High Strength Roll	A/O	M	2				66261005182				
	Maroon	747 General Purpose Plus Roll	A/O	VF	3				66261016430				
	Maroon	777 General Purpose Very Fine Roll	A/O	VF	3				66261004281			66261058376	
	Gray	851 General Cleaning Roll	S/C	VF	3							66261058377	
2" x 15 Ft. Handy Roll Pack	Assorted	1 each A/O Fine, A/O VF, SC MF	-	-	1							66261008108	
Scouring Pads/Sponges													
3-1/4 x 6-1/4 x 3/4	Green/Yellow	893 Scour-N-Sponge Pad	A/O	VF	40							66261059403	
3-1/4 x 6-1/4 x 3/4	White/Yellow	875 Clean-N-Sponge Pad	None	-	40							66261059402	

BEAR-TEX®



THIN and FLEXIBLE: Perfect for Tight Spots

Norton Bear-Tex Thin-Flex High-Performance Hand Pads

- Achieve performance benefits of a Coarse and Fine grain product in one hand pad: fast cut and definitively better finish than competing pads.
- Extremely thin and conformable; ideal for deburring, cleaning, blending, and finishing contoured surfaces and tight spaces
- Special coated web design for superior and constant cutting action without added effort from user
- Versatile; ideal for woodworking, metalworking, maintenance operations, and synthetics fabrication



When maximum conformability is needed, tough, Norton nylon brushes' flexible nylon filaments embedded with abrasive grain provide exceptional finishing and polishing and eliminate the need for costly and inconsistent hand deburring applications.

Norton nylon brushes are precision-engineered with the highest quality abrasive grains for those markets with the strictest requirements – for easy integration into today's automated machinery, CNC machining centers, transfer lines, robotic cells, and other highly-specialized machinery, as well as hand tools.

Applications:	Deburring, cleaning, finishing, and polishing
Brush Configurations:	Radial wheel brushes, narrow face wheel brushes, disc brushes, end brushes, and twisted brushes
Markets:	Aerospace/aircraft, automotive, construction/utility products, medical, metal finishing, woodworking
Abrasive Grain:	Ceramic Alumina, Silicon Carbide

WHY CHOOSE NYLON ABRASIVE BRUSHES?

- Abrasive grain cutting points are increased as the grain is exposed and cut equally when pressure is applied to the side or tip of the filament
- Uniform distribution of grain throughout the filaments allows cutting and finishing performance levels to remain consistent throughout the life of the brush – making Norton abrasive brushes ideal for automated applications
- Heat- and stress-resistant filaments prolong brush life and allow for superior conformability to irregular surface shapes
- The grain impregnated filaments act as a flexible file to deburr and radius edge profiles with precision, without gouging or affecting the overall geometry of a part
- The filaments bend at various angles to fit contours, creating a less prominent, more uniform surface finish in comparison to wire wheels or coated abrasive products
- Brush conformability allows usage on variety of complex part shapes without the need for ultra-precise programming and fixturing that is required with other deburring and finishing tools

NORTON BLAZE CERAMIC ALUMINA

BEST CHOICE ENGINEERED SPECIFICALLY FOR JOBS REQUIRING CONTROLLABLE SURFACE REFINEMENT AND UNIFORM FINISHING

FEATURES AND BENEFITS

- Norton Blaze sharp, penetrating ceramic alumina nylon brushes are engineered specifically for jobs requiring controllable surface refinement and uniform finishing; the fastest, longest lasting, consistent performers – brush after brush



NORTON SILICON CARBIDE

GOOD CHOICE FOR USE WHERE MAXIMUM CONFORMABILITY IS NEEDED

FEATURES & BENEFITS

- Feature tough, flexible nylon filaments embedded with abrasive grain to provide finishing and polishing where maximum conformability is needed
- Fast cutting silicon carbide abrasive grain



TIER:	GOOD	GOOD
BRAND:	Norton	Norton
ABRASIVE:	Silicon Carbide	Silicon Carbide
GRIT SIZE:	80	120

SIZE (D x T x H)	MAX. RPM	STD. PKG.	PART #	PART #
Stock Abrasive Brush				
7 x 1 x 7/8	6,000	5	66261058830	66261058834
<i>Use with air-cooled rubber back-up pad and retainer nut</i>				
Abrasive Brush Back-up Pads				
7" Medium	8,600	5	63642543422	



BACK-UP PAD

Currently, all Norton Blaze ceramic alumina nylon abrasive brushes are custom-made to your exact requirements. The Norton Blaze Nylon Brushes Brochure #8571 provides technical information and product availability. Your Norton representative would be pleased to review availability, quotations, and lead-times with you.



Non-woven depressed center discs have three components: strong synthetic fiber mesh and quality abrasives, bonded together by a smear-resistant adhesive. Rapid Strip discs have an open web construction that enables aggressive cutting action while maintaining a cool, non-loading surface. Rapid Blend discs have a unitized construction with varying weave – from open to tighter – for deburring and finishing. Rapid Prep discs have a more open weave that excels in surface preparation and cleaning. Each product provides excellent cutting action while improving surface finish.

Applications: Medium-to-light material removal, deburring, blending, cleaning, finishing, and polishing
 Size Range: 4-1/2" - 7"
 Grit Range: X-Coarse, Coarse, Medium, Fine, Very Fine
 Abrasive Grain: Ceramic Alumina, Silicon Carbide, Engineered Aluminum Oxide, Aluminum Oxide
 Machine Used:



MATERIAL/APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE – FOR ALL DISCS USED ON RIGHT ANGLE GRINDERS

	BEST Highest Productivity; Lowest Total Cost	BETTER Excellent Blend of Performance & Price	GOOD Consistent Performance; Low Initial Price
Removing scale and coarse welding marks	Blaze Rapid Strip Ceramic X/Grse –		Rapid Strip S/C X-Coarse
Removing coatings, epoxy/glue, paint and other clogging material			
Removing rust, oxidation, corrosion and residue			
Removing parting lines and seams on fiberglass parts			
Removing paint/graffiti from concrete/stone			
Removing weld marks and weld splatter	–	Vortex Rapid Blend A/O Coarse	Rapid Blend A/O Coarse
Stainless steel deburring and cleaning			
Removing small flashings and parting lines			
Surface preparation before coatings/plating	–	Vortex Rapid Prep A/O Medium	Rapid Prep A/O Medium
Light cleaning			
Cleaning and prepping welds	–	Vortex Rapid Prep A/O Fine	Rapid Prep A/O Fine
Removing blemishes after welding stainless			
Blending and finishing all metal parts	–	Vortex Rapid Blend A/O Very Fine	Rapid Blend S/C Very Fine
Creating decorative finishes on stainless steel			
Final finishing and polishing			
Final finishing/polishing where high conformability is needed	–	–	Rapid Prep A/O Very Fine

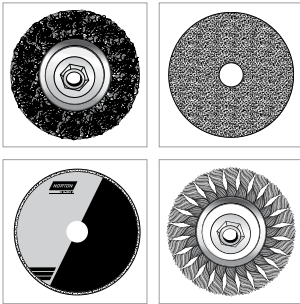
APPLICATION/PRODUCT RECOMMENDATION GUIDE – FOR ALL DISCS USED ON RIGHT ANGLE GRINDERS

	← MOST AGGRESSIVE / LEAST CONFORMABLE		← LEAST AGGRESSIVE / MOST CONFORMABLE →		
Depressed Center	Blaze Rapid Strip	Vortex Rapid Blend A/O Med. Rapid Blend A/O Coarse	Rapid Blend A/O Medium	Rapid Blend S/C Fine	Rapid Prep Very Fine
Discs With Back-Up Pad		Rapid Prep A/O Coarse	Rapid Prep A/O Medium	Rapid Prep A/O Fine	
Scale Removal	Best Choice				
Stock Removal	Best Choice	Second Choice			
Heavy Deburring	Second Choice	Best Choice			
Light Deburring		Best Choice	Second Choice		
Light Finishing		Second Choice	Best Choice		
Blending			Best Choice	Second Choice	
Finishing			Second Choice	Best Choice	
Polishing				Best Choice	Second Choice

CROSS REFERENCE GUIDE – FOR ALL DISCS USED ON RIGHT ANGLE GRINDERS

	STRIPPING (EXTRA COARSE)		SURFACE FINISHING (COARSE – MEDIUM – FINE)			SURFACE PREP (VERY FINE)
	BEST	GOOD	BETTER	GOOD	BETTER	GOOD
NORTON	Blaze Rapid Strip	Rapid Strip	Vortex Rapid Blend	Rapid Blend	Vortex Rapid Prep	Rapid Prep
3M	–	Clean & Strip	–	–	–	SL Surface Conditioning
Bibielle	–	SDR Strip-It/Red	–	BUR Unitized	–	–
Camel	–	EZ Strip Black/Red	–	–	–	–
Flexovit	–	Clean & Strip	–	–	–	–
Hermes	–	Webrax	–	–	–	–
Pearl	–	S/C Stripping	–	–	–	Surface Preparation
Pferd	–	Policlean	–	Poliflex PUR	–	–
Sait	–	Sait-Strip	–	Unitized	–	–
Standard	–	Cleaning	–	Unitized	–	FE, GP, RC
Superior	–	Stripping	–	XL Unitized	–	FD, GD, CC
Walter	–	FX Cleaning	–	–	–	Blendex Surface Conditioning

WHY CHOOSE NON-WOVEN DEPRESSED CENTER DISCS?



Non-Woven Right Angle Discs vs. Fiber Discs, Wire Wheels, and Depressed Center Wheels

- Deburring, blending and finishing done with one product to reduce the number of steps
- To provide a controlled, sustained finish
- To prevent undercutting and gouging
- To provide a cooler grinding action to lessen the chance of warping or discoloration
- When loading is an issue with fiberglass, adhesives and soft metals
- For stripping coatings and paint off of hard materials like concrete, cement and stone
- Less vibration and quieter for high operator acceptance
- To provide an alternative to wire brushes



Blaze Your Way to Greatest Productivity

Norton Blaze Rapid Strip Type 27 Depressed Center Discs

Strip/blend cast iron, steels, aluminum, fiberglass and composites

- Open structure; will not load on sticky coatings, adhesives, and soft metals (e.g. aluminum), or snag and shed like a cloth or fiber disc might
- Norton Blaze ceramic alumina grain provides 2X cut rate and life over silicon carbide
- Will not shed on heavily rust-encrusted pieces
- Extremely versatile; use one disc; stiff enough to stand abuse, but soft enough to prevent gouging and rework
- Use on edge for blending weld root forms
- Apply some pressure to strip or remove coatings; lighter pressure finishes like a surface finishing disc
- Fewer safety, ergonomic, and environmental issues due to fewer change-outs, less downtime, and less production waste/landfill scrap



DEPRESSED CENTER DISCS

NORTON BLAZE RAPID STRIP CERAMIC ALUMINA

BEST CHOICE FOR QUICK AND EASY ROUGH CLEANING AND STRIPPING OF ALL MATERIALS



FEATURES

- Norton Blaze ceramic alumina grain
- Advanced resin bond
- Uniform coating process
- Open structure

BENEFITS

- 2X cut rate, 2X life over silicon carbide products
- Does not shed on rust-encrusted pieces, and prevents gouging and rework
- Does not snag when used for deburring
- Abrasive coating covers the entire disc providing a consistent cut rate
- Sticky coating, adhesives and soft metals will not clog the disc

TIER:	BEST	GOOD
BRAND:	Norton	Norton
TRADENAME:	BLAZE RAPID STRIP	RAPID STRIP
ABRASIVE:	Ceramic Alumina	Silicon Carbide
GRIT SIZE:	36-50	36-50
GRADE:	X-Coarse	X-Coarse
TYPE/BACKING:	Type 27/Fiberglass	Type 27/Fiberglass

SIZE (D x H)	MAX. RPM	STD. PKG.	PART #	PART #
4-1/2 x 5/8-11	12,000	10	66254498101	66261009585
4-1/2 x 7/8	12,000	10	66623303783	66261009649
5 x 5/8-11	11,000	10	66623303915	
5 x 7/8	11,000	10	66623303916	
7 x 5/8-11	8,000	10	66623303919	66261009650
7 x 7/8	8,000	10	66623303920	66261009586

NORTON VORTEX RAPID BLEND ALUMINUM OXIDE

BETTER CHOICE WITH REVOLUTIONARY TECHNOLOGY FOR HEAVY DEBURRING AND FINISHING



FEATURES

- Proprietary high-performance, engineered aluminum oxide aggregate grain
- Superior bond technology
- Controlled porosity

BENEFITS

- Aggressive, fast stock removal cut rate while providing a fine finish
- Twice the wheel life over conventional unified wheels, with minimal shedding
- Consistent performance with no smearing
- Cooler and improved cut rate



TIER:	BETTER	GOOD	GOOD	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton
TRADENAME:	VORTEX RAPID BLEND	RAPID BLEND	RAPID BLEND	RAPID BLEND	RAPID BLEND
ABRASIVE:	Engineered A/O	Aluminum Oxide	Aluminum Oxide	Silicon Carbide	Aluminum Oxide
GRIT SIZE:	100-120	150-180	220-280	320-400	150-180
SPECIFICATION:	Medium	NEX-2AM	NEX-2AF	NEX-2SF	High Strength Medium
TYPE/BACKING:	Type 27/Fiberglass	Type 27/Fiberglass	Type 27/Fiberglass	Type 27/Fiberglass	Type 27/Fiberglass

SIZE (D x H)	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #	PART #
4-1/2 x 5/8-11	12,000	10	66254429243	66261023947	66261023946	66261023943	66261023949
4-1/2 x 7/8	12,000	10	66254429268	66261020548	66261020547	66261020546	66261020549

STANDARD BACK-UP PAD DISCS

NORTON VORTEX RAPID PREP ALUMINUM OXIDE DISCS

BETTER CHOICE FOR FINISHING AND BLENDING APPLICATIONS



FEATURES

- Proprietary, engineered Vortex aluminum oxide abrasive grain, new coating method, and smear-free Clean-Bond technology

BENEFITS

- Most consistent cutting and finishing surface conditioning products on the market
- Combine maximum cutting speed with the finish of fine grits
- Reduce process times by 50+% by eliminating 2 to 5 grit sequences to 1 step in your technical blending operations
- More resistant to edge wear; up 4X life vs. competitive products
- Friable grain structure keeps Ra specs throughout disc life and reduces scrap and rework

7/8" Center Hole

		TIER: BETTER	GOOD
		BRAND: Norton	Norton
		TRADENAME: VORTEX RAPID PREP	RAPID PREP
		ABRASIVE: Engineered Aluminum Oxide	Aluminum Oxide
SIZE (DIAMETER)	STD. PKG.	PART #	PART #
Extra Coarse			
4-1/2	25	66623334973	66623326070
5	25	66623334975	66261090645
6	25	66623341359	
7	25	66623341360	66623326085
Coarse			
4-1/2	25	66623334944	66254473868
5	25	66623334946	66261008293
6	25	66623341361	66623325136
7	25	66623341362	66623325138
Medium			
4-1/2	25	66623333612	66623325915
5	25	66623334963	66261017124
6	25	66623341363	66623325918
7	25	66623341364	66623325919
Fine			
4-1/2	25	66623333608	66623325153
5	25	66623334954	66254469132
6	25	66623341365	66623325159
7	25	66623341366	66623325897
Very Fine			
4-1/2	25	66623333616	66623325938
5	25	66623333618	66623325943
6	25	66623341367	66623325958
7	25	66623341368	66623325959



DESCRIPTION	MAX. RPM	STD. PKG.	PART NO.
Rapid Prep Disc Back-up Pads			
4-1/2" Medium	11,000	5	63642502122
5" Medium	10,000	5	63642543421
7" Medium	8,600	5	63642543422

All Rapid Prep 7/8" center hole discs are non-stock. Ask your Norton representative for current lead-times.



Norton Rapid Prep Surface Conditioning Products

The Perfect Abrasive, Coating, and Bond Built into Every Disc and Belt

- Available in premium Vortex aluminum oxide aggregate grain and Norton aluminum oxide grain; ideal for many aerospace, metal and stainless steel fabrication, and MRO applications
- Our proprietary coating method extends life and delivers consistent finishes by creating a thick layer of grain throughout the product. Grain does not sit on top of fibers as other competitive products can.
- Our new Clean Bond resin system guarantees smear-free finishes, even on high nickel content alloys; will not load on aluminum and soft metals, as competitive products can

RAPID PREP AVOS SPEED-LOK ALUMINUM OXIDE

GOOD CHOICE FOR LIGHT DEBURRING, CLEANING AND FINISHING



FEATURES	BENEFITS
<ul style="list-style-type: none"> Patented hole design 	<ul style="list-style-type: none"> Allows interrupted cut, reducing heat up to 30% over standard surface preparation discs Cool cutting results in longer disc life Provides complete vision into the grinding zone Operators can grind more accurately with less re-work
<ul style="list-style-type: none"> Scooped holes 	<ul style="list-style-type: none"> Create air flow to pull loose abrasive and swarf away from work surface grinding zone – resulting in extended disc life
<ul style="list-style-type: none"> 15 degree angle back-up pad 	<ul style="list-style-type: none"> Grinding at 5°-15° angle allows greater utilization of disc surface Eliminates gouging of workpiece

AVOS Speed-Lok

		TIER: BETTER	GOOD
		BRAND: Norton	Norton
		TRADENAME: VORTEX RAPID PREP AVOS	RAPID PREP AVOS
		ABRASIVE: Engineered Aluminum Oxide	Aluminum Oxide
SIZE (DIAMETER)	STD. PKG.	PART #	PART #
Extra Coarse			
5	10	66623374801	
Coarse			
4-1/2	10		66261010447
5	10		66623374818
7	10		
Medium			
4-1/2	10	66623374806	66261010448
5	10		66623374819
Very Fine			
4-1/2	10		66623374823
5	10		66623374824
7	10	66623374814	



DESCRIPTION	MAX. RPM	STD. PKG.	PART #
AVOS Speed-Lok Back-up Pads – Triangular			
4-1/2 x 5/8-11	13,000	5	63642502985
5 x 3/8-24 Pistol Grip*	20,000	5	63642503029
5 x 5/8-11 Thicker	13,000	5	63642502517
5 x 5/8-11	13,000	5	63642503663
5 x 7/16-20 Pistol Grip*	20,000	5	63642503030
AVOS Speed-Lok Back-up Pads – Round			
7 x 5/8-11 Hard	8,600	5	63642504873

* Use on air pneumatic and high-speed pistol grip sanders.

Speed Change 5/8"-11

		TIER: BETTER	GOOD
		BRAND: Norton	Norton
		TRADENAME: VORTEX RAPID PREP	RAPID PREP
		ABRASIVE: Engineered Aluminum Oxide	Aluminum Oxide
SIZE (DIAMETER)	STD. PKG.	PART #	PART #
Extra Coarse			
4-1/2	25	66623373667	66623373690
5	25	66623373669	
7	25	66623373670	66623373692
Coarse			
4-1/2	25	66623373671	66623373693
5	25	66623373674	66254498516
7	25	66623373675	66261192908
Medium			
4-1/2	25	66623373678	66623308157
5	25	66623373679	66623373694
7	25	66623373680	66261192913
Fine			
4-1/2	25	66623373681	
5	25	66623373682	66623373695
7	25	66623373684	
Very Fine			
4-1/2	25	66623373685	
5	25	66623373686	66623373699
7	25	66623373687	66623373700



DESCRIPTION	MAX. RPM	STD. PKG.	PART #
Smooth-Face Back-up Pads for 5/8-11 Speed-Change Discs			
4-1/2" Medium	20,000	5	66254492277
5" Medium	12,000	5	63642543235
7" Hard	8,600	5	63642543240
7" Medium	8,600	5	63642543245
7" Soft	8,600	5	63642543250
9" Medium	7,000	5	63642543270

Non-Woven Hook and Loop Discs

NORTON VORTEX RAPID PREP

BETTER CHOICE FOR FINISHING AND BLENDING APPLICATIONS



FEATURES

- Proprietary engineered Vortex aluminum oxide abrasive grain and coating method
- Clean Bond resin system, aerospace-tailored
- Strong hook and loop backing

BENEFITS

- Most consistent cutting and finishing of surface conditioning products on the market
- Combine maximum cutting speed with the finish of finer grits
- Reduce process times by 50+% by combining multiple grit sequences to 1 step in a blending operation
- More resistant to edge wear; up 4X life vs. competitive products
- Friable grain structure keeps Ra specs throughout disc life and reduces scrap and rework
- Smear-free, even on high nickel content alloys
- Will not load on aluminum and soft metals, as competitive products can
- Will not fly off rotary sanders
- Discs sit flatter on back-up pads, resulting in a more consistent finish on DA applications

TIER:	BETTER	GOOD
BRAND:	Norton	Norton
TRADENAME:	VORTEX RAPID PREP	RAPID PREP
ABRASIVE:	Engineered Aluminum Oxide	Aluminum Oxide

SIZE (DIAMETER)	STD. PKG.	PART #	PART #
Extra Coarse			
1-1/2	50	66623325061	66623340098
2	50	66623334970	66261017900
3	25	66623333620	66623326059
4	25	66623334971	66261017382
4-1/2	25	66623334972	66261017906
5	25	66623334974	66261017215
6	25	66623333621	66623326077
7	25	66623334976	66261192846
8	25	66623334977	
Coarse			
1-1/2	50	66623325057	66623340099
2	50	66623334882	66261004431*
3	25	66623334883	66261055015
4	25	66623334884	66261055018
4-1/2	25	66623334943	66261017806
5	25	66623334945	66261004435
6	25	66623334949	66261006910
7	25	66623334951	66261055027
8	25	66623334953	66261006913
Medium			
1-1/2	50	66623325059	66623338571
2	50	66623334958	66261004441
3	25	66623334956	66261004442
4	25	66623334959	66261055019
4-1/2	25	66623334961	66261004444
5	25	66623334962	66261055022
6	25	66623334964	66261006911
7	25	66623334965	66261017813
8	25	66623334966	66261017815
Fine			
1-1/2	50	66623325058	66623340101
2	50	66623333604	66623325141
3	25	66623333605	66623325143
4	25	66623333606	66623325145
4-1/2	25	66623333607	66623325147
5	25	66623333609	66623325154
6	25	66623333610	66623325160
7	25	66623334955	66261199465
8	25	66623333611	66623325907

* Standard Package = 80
Continued

Non-Woven Hook and Loop Discs *continued*

		TIER: BETTER	GOOD
		BRAND: Norton	Norton
		TRADENAME: VORTEX RAPID PREP	RAPID PREP
		ABRASIVE: Engineered Aluminum Oxide	Aluminum Oxide
SIZE (DIAMETER)	STD. PKG.	PART #	PART #
Very Fine			
1-1/2	50	66623325060	66623340100
2	50	66623333613	66623325926
3	25	66623333614	66623325934
4	25	66623334967	66261055020
4-1/2	25	66623333615	66623325936
5	25	66623333617	66623325941
6	25	66623334968	66261055026
7	25	66623334969	66261019990
8	25	66623333619	66623325972

Back-Up Pads for Hook and Loop Discs

				TIER: GOOD	GOOD
				BRAND: Norton	Merit
PAD DIAMETER	SPINDLE OR HOLE SIZE	MAX. RPM	3M EQUIVALENT	STD. PKG.	PART #
Back-Up Pads for Hook And Loop Discs					
2	1/4 Steel Shank	23,000	922	5	66261059352
3	1/4 Steel Shank	20,000	923	5	66261059354
4	1/4 Steel Shank	18,000	924	5	66261059356
	5/8-11	13,000	914	5	66261059304
	M10 x 1.250	13,000		5	66261059305
4-1/2	5/8-11	10,000	9145	5	66261006948
5	5/16-24 Male	10,000	905	5	66261059360
	3/8-24 Male	10,000	905	5	66261059308
	5/8-11	10,000	915	5	66261059310
6	5/8-11	8,000	916	5	66261059312
7	5/8-11	6,000	917	5	66261059368
8	5/8-11	4,500	918	5	66261059372

* = 1 per Pkg, ** = 2 Per Std Pkg.





Norton and Merit non-woven quick-change discs are a combination of strong synthetic mesh and quality abrasives, bonded together by a smear-resistant adhesive. The open construction of the non-woven material enables aggressive cutting action and improved surface finish while maintaining its non-loading feature.

- Applications: Medium-light stock removal, beveling, deburring/deflashing, rust removal, blending, cleaning and finishing, polishing, and decorative finishing
- Size Range: 3/4" – 4" diameter
- Grit Range: X-Coarse, Coarse, Medium, Fine, Very Fine, Super Fine
- Abrasive Grain: Ceramic Alumina, Engineered Aluminum Oxide, Aluminum Oxide, Silicon Carbide
- Attachment: Quick-Change Type TR (Type III), Type TS (Type II), and Type TP (Type I)
- Back-up Pads: Rubber with hardness variations for different applications
- Machine Used:



QUICK-CHANGE ATTACHMENT SYSTEMS AND CROSS REFERENCE GUIDE

Each system enables quick, tool-free, safe disc changes, reducing downtime and operating expenses.

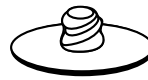
Type TS (Type II)

- Features a turn-on/turn-off style fastener
- Fastener is made of metal
- Equivalent to Standard Abrasives SocAtt® locking system



Type TR (Type III)

- Features a roll-on/roll-off style fastener
- Fastener is made of plastic
- Equivalent to 3M™ Roloc™ fastening system



Type TP (Type I)

- Features a snap-on/snap-off style fastener
- Fastener is made of nylon



NORTON	TS	TR	TP
3M	Roloc TS/TSM	Roloc TR	Roloc TP
Standard	TS (SocAtt)	TR (Lockit)	TP (ClickOn)
Superior	Type S	Type R	–
Arc	Type S	Type R	Type P
Pferd	Type CD	Type CDR	–
Sait	SAIT-LOK	SAIT-LOK-R	–
Camel	Turn On	Roll On	–
Klingspor	QMC	QRC	–
Garryson	Type S	Type R	–

APPLICATION/GRIT RECOMMENDATION GUIDE

MOST AGGRESSIVE ← → LEAST AGGRESSIVE

	Rapid Strip	Vortex Rapid Blend Deburring & Blending	Vortex Rapid Prep	Rapid Prep	HS Buffing, Buffing
NORTON					
MERIT					
Scale Removal	Best Choice				
Stock Removal	Best Choice	Second Choice			
Heavy Deburring	Second Choice	Best Choice			
Light Deburring		Best Choice	Second Choice		
Light Finishing			Best Choice	Second Choice	
Blending			Best Choice	Second Choice	
Cleaning			Second Choice	Best Choice	
Finishing				Best Choice	Second Choice

CROSS REFERENCE GUIDE

	STRIPPING		HEAVY/LIGHT DEBURRING		LIGHT DEBURRING/BLENDING/CLEANING/FINISHING		
	BEST	GOOD	BETTER	GOOD	BETTER	GOOD	GOOD
NORTON	Blaze Rapid Strip	Rapid Strip	Vortex Rapid Blend	Rapid Blend	Vortex Rapid Prep	Rapid Prep	
MERIT				Deburring & Blending			HS Buffing, Buffing
3M	-	Clean & Strip Clean Strip XT	-	EXL Unitized	-	Surf Cond, SL, SE	-
Standard	-	Cleaning Disc	-	500-900 Series Unitized	-	FE, GP, RC	Buff & Blend - HS, Buff & Blend
Fiberal/SIA	-		-		-	Meteor, Type B & C	-
Superior	-	Type R	-	XL Unitized	-	FD, GD, CC	HS, HD A/O
Arc	-	Arcstrip	-		-	Surface Cond	Blend & Finish
Pferd	-	Policlean	-		-	Finishing Disc - Hard & Soft	-
Sait	-	SAIT-Strip	-		-	HD, GP	Sand-Light Blending
Camel	-	EZ Strip - Black	-		-		-
Klingspor	-	Strip-It Black	-		-		-
Garryson	-		-		-	Surface Cond	-
Bibielle	-		-	BUR Unitized	-	DCR	-

ABRASIVE/GRIT/DENSITY KEY

ABRASIVE	SILICON CARBIDE			ALUMINUM OXIDE		CERAMIC ALUMINA
	SHARPER, FINER/BRIGHTER SCRATCH PATTERN					
GRIT SIZE	XC (24-36)	C (50-80)	M (100-150)	F (180-220)	VF (240-360)	SF (400-600)
	FASTER, AGGRESSIVE CUT, ROUGHER FINISH			REDUCED CUT RATE, FINER FINISH		
DENSITY	2			9		
	SOFT, OPEN, CONFORMABLE, LESS BURNING/LOADING			HARDER, MORE DURABLE, FASTER CUTTING, BETTER FINISH		

Quick-Change Rapid Strip Discs

NORTON BLAZE RAPID STRIP CERAMIC ALUMINA AND NORTON RAPID STRIP SILICON CARBIDE

BEST CHOICE IDEAL FOR REMOVING COATINGS ON A VARIETY OF SUBSTRATES, SUCH AS WOOD, METAL AND PLASTICS



FEATURES

- Manufactured with extruded nylon fibers, flexible resin technology, and extra-coarse abrasive grains
- Rapid Strip Blaze

BENEFITS

- Provide a unique combination of aggressive performance, long life, improved finish
- Outperform traditional coated abrasive products, leaving a thoroughly cleaned surface, ensuring excellent adhesion in subsequent processes such as coating, painting and soldering
- Great alternative to wire brushes
- Will not load on sticky coatings, adhesives, and soft metals, or snag and shed like a fiber disc
- 2X faster cutting than competitive discs; lasts 2X (plus) as long
- Stiff enough to stand abuse; soft enough to prevent gouging and rework. Apply some pressure to strip/remove coatings; lighter pressure finishes like a surface finishing disc

TIER: **BEST**
 BRAND: Norton
 TRADENAME: **BLAZE RAPID STRIP**
 ABRASIVE: Ceramic Alumina
 GRADE: XC
 ATTACHMENT: TR (Type III)



TIER: **GOOD**
 BRAND: Norton
 TRADENAME: **RAPID STRIP**
 ABRASIVE: Silicon Carbide
 GRADE: XC
 ATTACHMENT: TR (Type III)



TIER: **GOOD**
 BRAND: Norton
 TRADENAME: **RAPID STRIP**
 ABRASIVE: Silicon Carbide
 GRADE: XC
 ATTACHMENT: TS (Type II)



SIZE (DIAMETER)	MAX. RPM	STD. PKG.	PART #	STD. PKG.	PART #	STD. PKG.	PART #
2 x 1/2	15,500	25	66623303912	10	66261013402		
3 x 1/2	12,000	25	66261096557	10	66261013403	25	66623333374
4 x 1/2 TR+	8,000	5	66623303921	5	66261016580		

Refer to the end of this section for a list of quick-change back-up pads.

Deburring & Blending Unified Discs

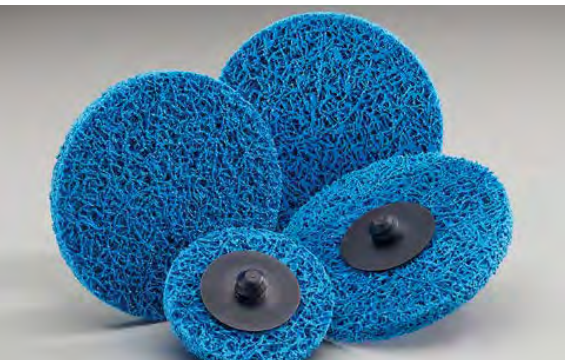


NORTON BLAZE RAPID BLEND CERAMIC ALUMINA

IDEAL FOR REMOVING COATINGS ON A VARIETY OF SUBSTRATES SUCH AS WOOD, METAL, AND PLASTICS

FEATURES & BENEFITS

- Norton Blaze SG ceramic alumina grain provides quickest cut rate and up to 8X longer life than competitive aluminum oxide discs
- Special resin chemistry resists shedding when used on sharp edges, making it ideal for deburring; no smearing
- New construction: abrasive is distributed throughout the entire disc (top, bottom and side) so all three faces can be used – versus competitive discs' one bottom layer of abrasive
- 3 - 8 times the life of competitive surface blending discs with fewer safety, ergonomic, and environmental issues due to fewer change-outs, less downtime, and less production waste/landfill scrap



NORTON VORTEX RAPID BLEND ALUMINUM OXIDE

REVOLUTIONARY TECHNOLOGY FOR HEAVY DEBURRING AND FINISHING

FEATURES & BENEFITS

- Proprietary engineered Vortex aluminum oxide aggregate grain performs the medium to fine grit steps of traditional discs in an easy one-step operation
- Special resin chemistry resists shedding when used on sharp edges, making it ideal for deburring; no smearing
- New construction: abrasive is distributed throughout the entire disc (top, bottom and side) so all three faces can be used – versus competitive discs' one bottom layer of abrasive
- 3 - 8 times the life of competitive surface blending discs with fewer safety, ergonomic, and environmental issues due to fewer change-outs, less downtime, and less production waste/landfill scrap



NORTON RAPID BLEND ALUMINUM OXIDE

GOOD CHOICE FOR LIGHT DEBURRING, BLENDING, AND CLEANING

FEATURES & BENEFITS

- Open mesh construction is waterproof, washable, conformable, and non-loading: designed for surface generation where stock removal is not required
- New construction: abrasive is distributed throughout the entire disc (top, bottom and side) so all three faces can be used – versus competitive discs' one bottom layer of abrasive
- 3 - 8 times the life of competitive surface blending discs with fewer safety, ergonomic, and environmental issues due to fewer change-outs, less downtime, and less production waste/landfill scrap
- No smearing



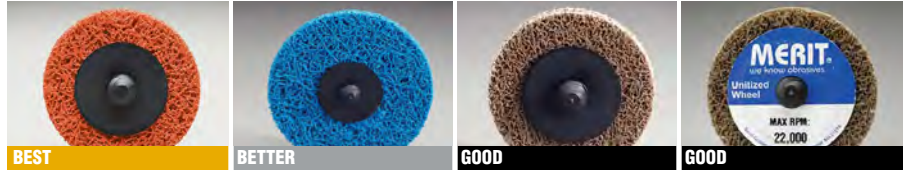
TIER:	BEST	BETTER
BRAND:	Norton	Norton
TRADENAME:	BLAZE RAPID BLEND	VORTEX RAPID BLEND
ABRASIVE:	Ceramic Alumina	Engineered Aluminum Oxide
ATTACHMENT:	TS (Type II)	TS (Type II)



SIZE (D x T)	ABRASIVE	GRIT	DENSITY	MAX. RPM	STD. PKG.	PART #	PART #
1 x 1/4	Ceramic Alumina	XC	1	35,100	100	66623313920	
1-1/2 x 1/4	Ceramic Alumina	XC	1	35,100	80	66623313922	
2 x 1/4	Ceramic Alumina	XC	1	12,100	25	66623313925	
	Aluminum Oxide	M	1	12,100	25		66254497070
3 x 1/4	Ceramic Alumina	XC	1	12,100	25	66623313931	
	Aluminum Oxide	M	1	12,100	25		66254497069

Refer to the end of this section for a list of quick-change back-up pads.

Deburring & Blending Unified Discs *continued*



TIER:	BEST	BETTER	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Merit
TRADENAME:	BLAZE RAPID BLEND	VORTEX RAPID BLEND	RAPID BLEND	DEBURR/BLEND
ABRASIVE:	Ceramic Alumina	Engineered Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
ATTACHMENT:	TR (Type III)	TR (Type III)	TR (Type III)	TR (Type III)

SIZE (D x T)	ABR.	GRIT	DENSITY	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #
1 x 1/4	C/A	XC	1	35,100	100	66623313919			
1-1/2 x 1/4	C/A	XC	1	35,100	80	66623313921			
2 x 1/8	A/O	M	4-6	22,000	60		66254425632		
	A/O	M	7-9	22,000	60		66254433509		
2 x 3/16	A/O	M	2-3	22,000	60		66254428236		
2 x 1/4	C/A	XC	1	35,100	25	66623313923			
	A/O	C	7-9	22,000	60			66261014921	66261054187
	A/O	M	1	12,100	25		66254497067		
	A/O	M	2-3	22,000	60		66254428237	66261014897	66261054183
	A/O	M	4-6	22,000	60		66254413660	66261014911	66261054185
	A/O	M	7-9	22,000	60		66254433510	66261014935	66261054186
	S/C	F	2	22,000	60			66261014889	
	S/C	F	3	22,000	60			66261017306	
	S/C	F	2-3	22,000	60				66261054182
	S/C	F	4-6	22,000	60				66261054184
3 x 1/8	A/O	C	7-9	15,000	40				
	A/O	M	2-3	15,000	40				
	A/O	M	4-6	15,000	40		66261093556		
	A/O	M	7-9	15,000	40		66261090909		
	A/O	F	2-3	15,000	40				
	A/O	F	4	15,000	40				
3 x 3/16	A/O	M	7-9	15,000	40		66254428239		
3 x 1/4	C/A	XC	1	12,100	25	66623313930			
	A/O	C	7-9	15,000	40			66261014922	66261054198*
	A/O	M	1	12,100	25		66254497068		
	A/O	M	2-3	15,000	40		66254428238	66261014898	66261054193*
	A/O	M	4-6	15,000	40		66254413661	66261014912	66261054196*
	A/O	M	7-9	15,000	40		66254406395	66261014936	66261054197*
	A/O	F	2-3	15,000	40				66261054192*
	A/O	F	4-6	15,000	40			66261015419	66261054194*
	S/C	F	2	15,000	40			66261014890	
	S/C	F	3	15,000	40			66261016005	
S/C	F	4-6	15,000	40				66261054195*	

* Std. Pkg. = 20 discs

For additional unified wheels – with arbor holes – see the non woven unified wheel section. Refer to the end of this section for a list of quick-change back-up pads.

Surface Preparation Discs



NORTON VORTEX RAPID PREP ALUMINUM OXIDE

BETTER CHOICE FOR FINISHING AND BLENDING APPLICATIONS

FEATURES & BENEFITS

- Proprietary engineered Vortex aluminum oxide abrasive grain and coating method combine maximum cutting speed with the consistent finish of finer grits to reduce process times by 50+% by combining multiple grit sequences to 1 step
- More resistant to edge wear; up 4X life versus competitive products; friable grain structure keeps Ra specs throughout disc life, reducing scrap/rework; extended form holding; lowest total cost of consumable tooling per workpiece
- Clean Bond resin system, aerospace-tailored, remains smear-free, even on high nickel content alloys; will not load on aluminum and soft metals, as competitive products can



NORTON RAPID PREP ALUMINUM OXIDE

GOOD CHOICE FOR FINISHING AND BLENDING APPLICATIONS

FEATURES & BENEFITS

- Clean Bond resin system, aerospace-tailored, remains smear-free, even on high nickel content alloys; will not load on aluminum and soft metals, as competitive products may
- Proprietary coating method; thick layer of grain throughout the product extends life; grain does not sit on top of fibers as other competitive products can

TIER:	BETTER	GOOD	BETTER	GOOD	BETTER	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton	Norton
TRADENAME:	VORTEX RAPID PREP	RAPID PREP	VORTEX RAPID PREP	RAPID PREP	VORTEX RAPID PREP	RAPID PREP
ABRASIVE:	Engineered A/O	Aluminum Oxide	Engineered A/O	Aluminum Oxide	Engineered A/O	Aluminum Oxide
ATTACHMENT:	TR (Type III)	TR (Type III)	TS (Type II)	TS (Type II)	TP (Type I)	TP (Type I)



SIZE (DIAM.)	STD. PKG.	PART #	PART #	PART #	PART #	PART #	PART #
Extra Coarse							
3/4	50	66623325001	66623340002	66623335324	66261022401	66623325000•	66623340000
1	50	66623325004•	66623340007•	66623325003	66623340006	66623325002	66623340004
1-1/2	50	66623325007	66623340011	66623325006	66623340010	66623325005	66623340008
2	50	66623335326	66261016373	66623335325	66261017819	66623325008	66623340012
3	25	66623335327	66261016994	66623325010	66261017818	66623325009	66623340015
4	25	66623335329	66261016374	66623335328	66623310706	66623325011	66623340018
Coarse							
3/4	50	66623325013	66623340021	66623335410	66261095015	66623325012•	66623340020•
1	50	66623325015	66623340023	66623335537	66261024310	66623325014	66623340022
1-1/2	50	66623335411	66261047579	66623325017	66623340026	66623325016	66623340024•
2	50	66623335414	66261004437	66623335413	66261009183	66623335412•	66254498593
3	25	66623335417	66261009194	66623335416	66261009186	66623335415	66254498596
4	25	66623335419	66261008822	66623335418	66261055349	66623325018	66623340030
Medium							
3/4	50	66623325020	66623340032	66623335420	66254428059	66623325019	66623340031•
1	50	66623335422	66254482331	66623335421	66254482327	66623325021	66623340033
1-1/2	50	66623335424	66254482332	66623335423	66254482328	66623325022	66623340034•
2	50	66623335427	66261009190*	66623335426	66261009182	66623335425•	66254498520
3	25	66623335430	66261017522	66623335429	66261009185	66623335428	66254498595
4	25	66623335432	66261008821	66623335431	66261055350	66623325023	66623340039
Fine							
3/4	50	66623325026	66623340058	66623325025	66623340056	66623325024•	66623340054•
1	50	66623325029	66623340064	66623325028	66623340062	66623325027•	66623340060•
1-1/2	50	66623325032	66623340070	66623325031	66623340068	66623325030•	66623340066•
2	50	66623325035	66623340077	66623325034	66623340074	66623325033	66623340072
3	25	66623325038	66623340085	66623325037	66623340082	66623325036	66623340080
4	25	66623325041	66623340092	66623325040	66623340090	66623325039	66623340088•
Very Fine							
3/4	50	66623325044	66623340044	66623325043	66623340042	66623325042	66623340041•
1	50	66623325047	66254482339	66623325046	66254482335	66623325045•	66623340045
1-1/2	50	66623325050	66254482340	66623325049	66254482336	66623325048•	66623340046•
2	50	66623335433	66261009189*	66623325052	66254482337	66623325051•	66254498594
3	25	66623335437	66261009192	66623335436	66261009184	66623325053•	66254498597
4	25	66623325056	66623340053	66623325055	66623340052	66623325054	66623340051
Super Fine							
2	50		66261091459				
3	25		66261091460				

• Non-stock. Ask your Norton representative for current lead-times and order quantities

Surface Preparation Stars

MERIT SURFACE PREPARATION STARS

THE PERFECT ITEM FOR ID WORK



FEATURES BENEFITS

- Star shape
- Penetrates the ID and polishes or cleans the surface without disturbing any tolerances
- 1/4-20 eyelets
- Attach to Merit MM20-4 mandrel, Part # 08834183164 (See description at end of Overlap Slotted Disc Section.)

TIER: **GOOD**
 BRAND: Merit
 TRADENAME: **SURFACE PREP**
 ABRASIVE: Aluminum Oxide
 ATTACHMENT: 1/4-20 Eyelet

SIZE (D x EYELET)	GRIT	STD. PKG.	PART #
1-1/2" x 1/4-20	C	100	08834185923
	M	100	08834185924
	VF	100	08834185925
2" x 1/4-20	C	100	08834185926
	M	100	08834185927
	VF	100	08834185928
3" x 1/4-20	C	100	08834185929
	M	100	08834185678
	VF	100	08834185931
4" x 1/4-20	C	100	08834185932
	M	100	08834185933
	VF	100	08834185934

2", 3" and 4" Merit Surface Prep Stars are non-stock. Ask your Norton/Merit representative for lead-times.

Cross Buffs

MERIT CROSS BUFFS

EXCELLENT FOR BLENDING, POLISHING AND ID USAGE



FEATURES BENEFITS

- Unique design
- Durable non-woven construction that delivers longer life and cool running
- 8-32 eyelets
- Attach to Merit MM32-4 mandrel. Part No. 08834183163 (See description at end of Overlap Slotted Disc Section)

TIER: **BETTER** **GOOD**
 BRAND: Merit Merit
 TRADENAME: **HIGH STRENGTH** **BUFFING**
 ABRASIVE: Aluminum Oxide Aluminum Oxide
 ATTACHMENT: 8-32 Eyelet 8-32 Eyelet

SIZE (D x W)	GRIT	PLY	STD. PKG.	PART #	PART #
1-1/2 x 1/2	Coarse	2	100		08834188761
	Medium	2	100	08834189306	08834187312
	Very Fine	2	100	08834189307	08834188585
1-1/2 x 1/2	Coarse	3	100		66623301763
	Medium	3	100	08834189308	08834187311
	Very Fine	3	100	08834189309	08834188586

Buffing/Polishing Discs

NORTON & MERIT BUFFING/POLISHING DISCS

DESIGNED FOR LIGHT REMOVAL OF PAINT OR RUST



FEATURES

- High-strength discs
- For light removal of paint or rust

BENEFITS

- Tough, yet conformable, and resist tearing on burrs and sharp edges
- Smear-proof
- Does not affect the base product

TIER: **BEST**
 BRAND: Norton
 TRADENAME: **HIGH-STRENGTH**
 ABRASIVE: Aluminum Oxide
 ATTACHMENT: TR (Type III)



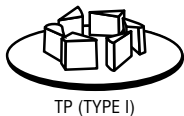
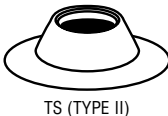
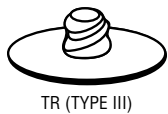
BETTER	BETTER	GOOD	GOOD	GOOD
Merit	Merit	Merit	Merit	Merit
HIGH-STRENGTH	HIGH-STRENGTH	BUFFING	BUFFING	BUFFING
Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
TR (Type III)	TS (Type II)	TR (Type III)	TS (Type II)	TP (Type I)



SIZE (D)	GRIT	STD. PKG.	PART #	STD. PKG.	PART #	PART #	PART #	PART #	PART #
1-1/2	M			100			08834166368	08834166392	08834166292
	F			100			08834166369		08834166332
2	C			50			08834161649	08834166394	08834161627
	M	160	66261014792	50	08834164064	08834164244	08834166303	08834166395	08834166280
	F			50			08834166304	08834166396	08834166281
3	VF			50	08834163987	08834164245	08834166305	08834166405	08834166282
	C			25			08834161651	08834166397	08834166293
	M	80	66261014793	25	08834164065	08834164252	08834166308	08834166398	
	F			25			08834166309	08834166399	08834166285
	VF			25	08834163559	08834164255	08834166310	08834166403	08834166286

Quick-Change Back-up Pads

- Hard density pads are for aggressive cutting action
- Medium density pads are for all-purpose applications
- Soft density pads are used for contours and fine finishing work



TIER:	GOOD	GOOD	GOOD	GOOD	GOOD
BRAND:	Norton	Merit	Norton	Merit	Merit
ATTACHMENT:	TR (Type III)	TR (Type III)	TS (Type II)	TS (Type II)	TP (Type I)

SIZE (DIAMETER)	MAX. RPM	DENSITY	PART #	PART #	PART #	PART #	PART #
Quick-Change Back-up Pads							
3/4"	40,000	Medium		08834164038		08834164206	08834164001
1"	40,000	Medium		08834164037		08834164651	08834164002
1-1/2"	30,000	Hard				08834164622	08834163996
	30,000	Medium	66261047580	08834161174		08834164146	08834164003
2"	30,000	Hard		08834164643	63642543205	08834164624	08834163997
	30,000	Medium	66261055103	08834164922	63642543210	08834164198	08834164004
	30,000	Soft		08834164641		08834161625	08834163949
3"	20,000	Hard	63642504900	08834164036	63642543220	08834161626	08834163998
	20,000	Medium	66261055105	08834164949	63642543225	08834164113	08834164005
	20,000	Soft		08834164644		08834164626	08834163948
4"	15,000	Medium	66261047581	08834164655	63642543232	08834164135	08834164006
4" TR+	8,000	Medium	66261016581	63642555106			

All quick-change back-up pads have a 1/4" diameter shank. Std. Pkg. = 1

Refer to the end of the Coated Abrasive Quick-Change Discs section for a complete list of back-up pads and mandrels.

ARBOR HOLE (GANGABLE) DISCS

Non-Woven High Strength Discs

NORTON & MERIT HIGH STRENGTH AND FASTCUT DISCS

BETTER CHOICE FOR LIGHT DEBURRING AND FINISHING



FEATURES

- Firm, durable web
- Tough, yet conformable
- Strong, smear-proof resin binders

BENEFITS

- High resistance to tearing on burrs and sharp edges
- Can be "ganged" together and used as a wheel
- Produce light satin finishes

Applications include rust/oxide or coating removal, pipe ID and OD polishing, casting cleaning, highlighting (antiquing), contaminant removal, removal of handling marks, gasket removal, cleaning and blending of surface imperfections, prepping prior to soldering, removal of filling materials, cleaning angles and odd shapes. Will not stretch or shed. Ganging increases versatility.

SIZE (D x H)	GRIT	MAX. RPM	STD. PKG.	TIER: BEST	BETTER	GOOD	
				BRAND: Norton	Norton	Merit	
				TRADENAME: FAST CUT	HIGH STRENGTH	HIGH STRENGTH	
				ABRASIVE: Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	
SIZE (D x H)	GRIT	MAX. RPM	STD. PKG.	PART #	PART #	STD. PKG.	PART #
6 x 1/4	VF	4,000	70		66261007628		
6 x 1/2	M	4,000	70		66261005073	25	08834162410
	F	4,000	70			25	08834167735
	VF	4,000	70	66261000601	66261004980	25	08834162411
8 x 1/2	M	3,000	50		66261005491	25	08834162412
	VF	3,000	50		66261004506	25	08834162413
12 x 1-1/4	VF	1,900	25		66261008723		



FITS HOLE	FOR DISC WIDTH	FOR DISC DIAMETER	SHANK DIAMETER	OVERALL LENGTH	WASHER DIAMETER	STD. PKG.	PART #
Mandrel Assemblies For Using Discs On Edge							
1/4"	1/2" (Standard)	up to 6"	1/4"	2-1/2"	1-1/2"	1	66261009502
1/2"	1/2" (Standard)	Up to 8"	1/4"	3-1/8"	2-1/4"	1	66261059420

Non-Woven Disc Wheels

MERIT DISC WHEELS

GOOD CHOICE FOR LIGHT DEBURRING AND FINISHING



FEATURES

- Discs are "ganged" together to form a wheel

BENEFITS

- Mounted on a 1/4" steel mandrel embedded in an epoxy core
- Strong and durable

SIZE (D x W x 1/4 SHANK)	GRIT	PLY	MAX. RPM	STD. PKG.	TIER: GOOD
					BRAND: Merit
					ABRASIVE: Aluminum Oxide
SIZE (D x W x 1/4 SHANK)	GRIT	PLY	MAX. RPM	STD. PKG.	PART #
2 x 1/2	Medium	2 Ply	12,000	10	08834131551
2 x 1	Medium	4 Ply	12,000	10	08834131554
3 x 1/2	Medium	2 Ply	8,000	10	08834131558
	Very Fine	3 Ply	8,000	10	08834131560
3 x 1	Medium	4 Ply	8,000	10	08834131496
	Fine	5 Ply	8,000	10	08834131557
	Very Fine	5 Ply	8,000	10	08834131497
	Fine	3 Ply	6,000	10	08834131562
4 x 1/2	Fine	3 Ply	6,000	10	08834131564
4 x 1	Medium	4 Ply	6,000	10	08834131564
5 x 1/2	Medium	2 Ply	4,000	10	08834131567
5 x 1	Medium	4 Ply	4,000	10	08834131570
	Fine	5 Ply	4,000	10	08834131571

Disc wheels are constructed by number of plies. The actual face width will vary and will not match the listed width exactly. Face width is given for reference only.



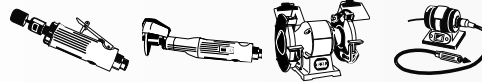
Made from non-woven synthetic fiber mesh, which is impregnated with abrasives and bound with resins, non-woven wheels are designed to create desired surface finish where little or no stock removal is required. The industry's broadest offering is available for light stock removal, deburring, blending, finishing and polishing. Non-woven wheels have an open mesh construction that is waterproof, washable, conformable and non-loading.

Applications: Cleaning and removing imperfections on metal surfaces, cleaning built-up residue, deburring or finishing a variety of surfaces, blending weld seams or creating decorative finishes. Non-woven surface finishing products have excellent versatility.

Abrasive Grain: Ceramic Alumina, Engineered Aluminum Oxide, Aluminum Oxide, Silicon Carbide

Grit Range: Extra Coarse (XC), Coarse (C), Medium (M), Fine (F)

Machine Used:



APPLICATION/GRIT RECOMMENDATION GUIDE

	← MOST AGGRESSIVE			→ LEAST AGGRESSIVE			
NORTON	Rapid Strip Wheels	Rapid Blend Unified Wheels	Rapid Finish GP Convolute Wheels	Metal Finishing Convolute Wheels	Clean & Finish Convolute Wheels	Light Finishing Convolute Wheels	Non-Woven / Interleaf Flap Wheels
Scale Removal	Best Choice						
Stock Removal		Best Choice	Second Choice				
Heavy Deburring		Best Choice	Second Choice				
Decorative Finishing				Best Choice	Second Choice		
Blending			Best Choice	Second Choice			
Cleaning				Second Choice	Best Choice		
Light Deburring			Second Choice			Best Choice	
Light Finishing			Second Choice			Best Choice	
Polishing						Best Choice	Second Choice
Buffing							Best Choice

SURFACE FINISH VARIABLES

Changes in any one of many factors can affect the surface finish on the workpiece. This chart shows the effect on surface finish by changes in single factors of product specifications. Arrows have been used to signify the trend direction. The arrow length does not signify that the effect of each factor is equal.

Variable Factor	Rough Finish High Rms Reading	Smooth Surface Lower Rms Reading
1. Wheel Speed	Slow ←	Fast →
2. Feed Speed	Faster (Long Scratch) ←	Slower (Short Scratch) →
3. Oscillation	No Oscillation ←	Oscillation →
4. Lubricants	Dry ←	Soluble Oil →
	Water ←	Straight Oil →
		Compounds →

NON-WOVEN MARKING SYSTEM

ABRASIVE	SILICON CARBIDE	ALUMINUM OXIDE		
	← SHARPER, FINER/BRIGHTER SCRATCH PATTERN	→ MORE DURABLE, LONGER LASTING, POLISHED FINISH		
GRIT SIZE	XC (24-36)	C (50-80)	M (100-150)	F (180-220)
	← FASTER, AGGRESSIVE CUT, ROUGHER FINISH	→ REDUCED CUT RATE, FINER FINISH		
DENSITY	2	9		
	← SOFT, OPEN, CONFORMABLE, LESS BURNING/LOADING	→ HARDER, MORE DURABLE, FASTER CUTTING, BETTER FINISH		

CROSS REFERENCE GUIDE

	← STRIPPING		HEAVY/LIGHT DEBURRING		LIGHT DEBURRING/BLENDING/POLISHING			CLEANING/FINISHING →			
	BEST	GOOD	BEST	GOOD	BEST	BEST	BETTER	BEST	BEST	BEST	GOOD
NORTON	Blaze Rapid Strip	Rapid Strip	Vortex Rapid Blend	NEX Rapid Blend	Rapid Finish GP	Series 4000	Series 1000	Light Finishing	Metal Finishing	Clean & Finish	Non-Woven / Interleaf Flap Wheels
3M		Clean Strip	Cut & Polish Unitized	EXL Unitized	3M EXL, General Purpose	EX2 & EX3	EXL Deburring	Light Deburring	Metal Finishing	Multi Finishing	Finishing Flap Brush
Standard		Britestrip	800 & 900 Series	500 - 700 Series	General Purpose Plus, Light Deburring	GP Plus	Deburring Convolute	LDW	Metal Finishing	Multi Finishing	Buff & Blend Flap Brush

Rapid Strip Wheels



NORTON BLAZE RAPID STRIP CERAMIC ALUMINA

BEST CHOICE FOR REMOVING COATINGS ON A VARIETY OF SUBSTRATES, SUCH AS WOOD, METAL AND PLASTICS

FEATURES & BENEFITS

- Norton Blaze ceramic alumina grain provides 2X cut rate, 2X life over silicon carbide products
- Advanced resin bond does not shed on rust-encrusted pieces, and prevents gouging and rework; does not snag when used for deburring
- Leave a thoroughly cleaned surface that ensures excellent adhesion for subsequent processes such as coating, painting and soldering.



TIER:	BEST	GOOD
BRAND:	Norton	Norton
TRADENAME:	BLAZE RAPID STRIP	RAPID STRIP
ABRASIVE:	Ceramic Alumina	Silicon Carbide
GRIT:	Extra Coarse	Extra Coarse

SIZE	MAX. RPM	STD. PKG.	PART #	PART #
Arbor Hole				
4 x 1/4	8,000	25	66261009324	66261008008
4 x 1/2	8,000	25	66623304856	66261007916
6 x 1/4	4,000	15	66623340171	66261007988
6 x 1/2	4,000	15	66261099378	66261008051

Note: Blaze Rapid Strip shown with mandrel inserted into arbor hole.

Rapid Blend Unified Wheels

Designed for maintenance operations needing an efficient and cost-effective method of deburring, polishing, cleaning or finishing metals and composites. Easily preformed for use on a wide variety of shapes/contours. Hold shape well; less wheel dressing. Non-metallic so no contamination of workpiece. Uniform construction maintains part tolerance; prevents cutting or gouging.

NORTON VORTEX RAPID BLEND ALUMINUM OXIDE

BETTER CHOICE FOR LIGHT WELD BEAD AND WELD SPLATTER REMOVAL, HEAVY DEBURRING AND FINISHING APPLICATIONS

FEATURES

- High-performance engineered grain and improved resin bond system
- Thick nylon web
- Controlled porosity

BENEFITS

- Aggressive, fast, stock removal, reduced cycle times, and increased part quality
- 2X longer life and faster finishing – with minimal shedding
- Cool cutting and improved cut rate



TIER:	BETTER
BRAND:	Norton
TRADENAME:	VORTEX RAPID BLEND UNIFIED WHEELS

SIZE (D x T x H)	ABRASIVE	GRIT SIZE	STD. PKG.	MAX. RPM	3 DENSITY PART #	MAX. RPM	5 DENSITY PART #	MAX. RPM	7 DENSITY PART #	MAX. RPM	9 DENSITY PART #
2 x 1/8 x 1/8	A/O	M	60			22,000	66254425657	20,000	66254410849		
2 x 1/8 x 1/4	A/O	M	60					22,000	66261191446		
2 x 1/4 x 1/4	A/O	M	60	18,000	66254428456	22,000	66254433504	22,000	66261080270		
2 x 1 x 1/4	A/O	M	15					22,000	66261080269		
3 x 1/8 x 1/4	A/O	M	40			18,000	66261093448	18,000	66261191445		
3 x 1/8 x 3/8	A/O	M	40			18,000	66254433503	18,000	66254401131		
3 x 1/4 x 1/4	A/O	M	40	12,000	66254428454	18,000	66254414832	18,000	66261199696		
3 x 1/4 x 3/8	A/O	M	40	12,000	66254433505	12,000	66254433506				
3 x 1/2 x 1/4	A/O	M	20			18,000	66254432925	18,000	66261080267	18,000	66254433507
3 x 1/2 x 3/8	A/O	M	20			18,000	66254433508	18,000	66261080266	18,000	66254420696

Rapid Blend Unified Wheels *continued*

NORTON NEX RAPID BLEND A/O & S/C

GOOD CHOICE FOR LIGHT DEBURRING AND BLENDING



FEATURES

- Uniform construction
- Smear-resistant formula

BENEFITS

- Extra long life
- Excellent, consistent, smear-free finishes

TIER: **GOOD**

BRAND: Norton

TRADENAME: **NEX RAPID BLEND UNIFIED WHEELS**

SIZE (D x T x H)	ABRASIVE	GRIT	MAX. RPM	STD. PKG.	2 DENSITY PART #	3 DENSITY PART #	4 DENSITY PART #	6 DENSITY PART #	7 DENSITY PART #	8 DENSITY PART #
1 x 1 x 3/16	A/O	C	30,000	50						66261014915
	A/O	M	18,000	50	66261014891					
	A/O	M	30,000	50				66261014908		66261014924
	S/C	F	18,000	50	66261014883					
	S/C	F	30,000	50				66261014904		66261014923
2 x 1/8 x 1/4	A/O	M	22,000	60						66261014927
2 x 1/4 x 1/4	A/O	M	18,000	60	66261014892					
	A/O	M	22,000	60						66261014926
	A/O	F	22,000	60				66261014901		
	S/C	F	18,000	60	66261014884					
2 x 1/2 x 1/4	A/O	M	22,000	30						66261014925
3 x 1/4 x 1/4	A/O	C	18,000	40						66261014919
	A/O	M	18,000	40				66261014909		66261014930
	S/C	F	12,000	40	66261014886					
3 x 1/4 x 3/8	A/O	C	18,000	40						66261014920
	A/O	M	12,000	40	66261014895					
	A/O	M	18,000	40				66261014910		66261014933
	A/O	F	12,000	40			66261014899			
	S/C	F	12,000	40	66261014887	66261016006				
3 x 1/2 x 1/4	A/O	M	12,000	20	66261014893					
	A/O	M	18,000	20				66261014928		
	S/C	F	12,000	20	66261014885					
3 x 1/2 x 3/8	A/O	M	18,000	20						66261014929
3 x 1 x 3/8	S/C	XC	14,000	10					66261014914	
6 x 1/2 x 1	A/O	M	7,500	4						66261014931
6 x 1 x 1	S/C	F	5,000	2	66261014888					

NORTON RAPID BLEND DEBURRING A/O & S/C

GOOD STARTING SPECIFICATION FOR HIGH-SPEED DEBURRING APPLICATIONS

FEATURES

- Controlled density range

BENEFITS

- More durable than General Duty Wheels



TIER: **GOOD**

BRAND: Norton

TRADENAME: **RAPID BLEND DEBURRING UNIFIED WHEELS**

SIZE (D x T x H)	ABRASIVE	GRIT	MAX. RPM	STD. PKG.	PART #
2 x 1/4 x 1/4	A/O	220	20,000	60	66261052200
2 x 1/2 x 1/4	A/O	120	20,000	40	66261058876
	S/C	220	20,000	40	66261058782
3 x 1/4 x 1/4	A/O	220	18,000	40	66261058877
	S/C	220	18,000	40	66261058854
3 x 1/2 x 1/4	S/C	220	18,000	20	66261058859
3 x 3/4 x 1/4	A/O	220	18,000	20	66261058881

Rapid Blend Unified Wheels *continued*

NORTON RAPID BLEND GENERAL DUTY DEBURRING

GOOD CHOICE FOR GENERAL PURPOSE LIGHT DEBURRING APPLICATIONS

FEATURES

- Excellent resistance to snagging

BENEFITS

- For general purpose light deburring applications

TIER: **GOOD**

BRAND: Norton

TRADENAME: **RAPID BLEND
GENERAL DUTY UNIFIED WHEELS**

SIZE (D x T x H)	ABRASIVE	GRIT	DENSITY	MAX. RPM	STD. PKG.	PART #
1 x 1 x 3/16	A/O	C	8	15,000	50	66261000938
2 x 1/4 x 1/4	A/O	C	8	11,000	60	66261052275
2 x 1/2 x 1/4	A/O	F	4	11,000	40	66261058764
3 x 1/4 x 1/4	A/O	C	8	8,000	40	66261052276
	A/O	F	4	8,000	40	66261058816
	S/C	F	4	8,000	40	66261000745
3 x 1/2 x 1/4	A/O	F	4	8,000	20	66261054046
	S/C	F	4	8,000	20	66261054048
3 x 3/4 x 1/4	A/O	F	4	8,000	20	66261058769
	S/C	M	4	8,000	20	66261058773
	S/C	F	4	8,000	20	66261058771
6 x 1/2 x 1/2	S/C	M	4	4,800	8	66261058779
6 x 1 x 1/2	S/C	M	4	4,800	4	66261058792
	S/C	F	4	4,800	4	66261058790
6 x 1 x 1	S/C	F	4	4,800	4	66261058797

Assemblies and Mandrels for Unified Wheels

FITS WHEEL CENTER HOLE	FOR WHEEL WIDTH	FOR WHEEL DIAMETER	SHANK DIAMETER	OVERALL LENGTH	WASHER DIAMETER	3M EQUIVALENT	STD. PKG.	PART #
Mandrel Assemblies for Unified Wheels and Discs On Edge								
3/16	1/8 – 1/2	1 – 2	1/4	2	7/16	994	1	66261009852
1/4 – 5/16	Up to 1/2	Up to 2	1/4	2	5/8	932	1	66261015146
1/4 – 5/16	Up to 1	Up to 2	1/4	2-1/2	5/8	932	1	66261059422
	Up to 1	2 – 3	1/4	2-1/2	1	933	1	66261059421
3/8	Up to 1/2	2 – 4	1/4	2-1/2	1	990	1	66261009851
1/2	Up to 1	3 – 6	1/4	3-1/8	1-5/8	934	1	66261009850
Threaded Mandrel for Unified Wheels								
FOR CENTER HOLE	USE WITH UNIFIED WHEEL	SHANK DIAMETER	SHANK LENGTH			3M EQUIVALENT	STD. PKG.	PART #
3/16	1 x 1 x 3/16	1/4"	1-3/4"			948	5	66261047584



MANDREL ASSEMBLY 66261059421



MANDREL ASSEMBLY 66261059422



THREADED MANDREL 66261047584





Convolute Wheels

Formed by wrapping and bonding web material impregnated with abrasive grain and resin around a center core. Convolute wheels offer a wide range of uses:

- Burr and flashing removal
- Surface roughness reduction
- Blending weld areas on stainless steel
- Blending scratch patterns
- Weld polishing
- Removing rust and oxides
- Applying decorative finishes including antique patterns

TIP

- Convolute wheels must always run in the direction indicated by the arrow printed on the side of each wheel.
- Light to medium pressure is recommended. Excessive pressure may result in part damage.
- Lubricants such as water-soluble oil and straight oil will decrease the heat and improve the surface finish and lustre.



It is the user's responsibility to refer to and comply with ANSI B7.1

NORTON RAPID FINISH GENERAL PURPOSE A/O & S/C

BEST CHOICE FOR BROAD RANGE OF APPLICATIONS: GENERAL DEBURRING, BLENDING, AND FINISHING ON ALL MATERIALS INCLUDING METALS, WOOD, GLASS



FEATURES & BENEFITS

- Eliminate smearing and loading on a wide range of workpieces (from high-nickel-content alloys to aluminum and other soft metals with patent-pending Norton Clean Bond resin technology)
- Increase throughput with a 30% faster finish through new Norton grain/bond configuration
- Decrease wheel changes with a 10-30% longer life, provided by a new fiber and the high-temperature resin bond
- Ease wheel selection with color-coding wheel to match the primary use (maroon for General Purpose), and fiberglass core to match the abrasive (black for silicon carbide and white for aluminum oxide)
- Use wet or dry

TIER: **BEST**

BRAND: Norton

TRADENAME: **RAPID FINISH GENERAL PURPOSE**

SIZE (D x T x H)	ABRASIVE	GRIT	MAX. RPM	STD. PKG.	PRODUCT CODE	6 DENSITY PART #	7 DENSITY PART #	8 DENSITY PART #	9 DENSITY PART #
6" x 1/2" x 1"	A/O	Med.	6,000	4	C2315		66261134177	66261134178	66261134179
	S/C	Med.	6,000	4	C4315				66261108076
	S/C	Fine	6,000	4	C4415		66261133213	66261106732	66261112985
6" x 1" x 1"	A/O	Med.	6,000	3	C2315	66261134180	66261134181	66261134182	66261134183
	A/O	Fine	6,000	3	C2408	66261132100	66261132322	66261132324	
	S/C	Med.	6,000	3	C4315		66261108074	66261133215	66261108075
	S/C	Fine	6,000	3	C4415	66261114475	66261119988	63642577269	63642581587
	S/C	Very Fine	6,000	3	C4515	66261131970			
6" x 2" x 1"	A/O	Med.	6,000	2	C2315		66261134184		
	S/C	Med.	6,000	2	C4315		66261114471		
	S/C	Fine	6,000	2	C4415		66261132325		
8" x 1" x 3"	S/C	Med.	4,500	3	C4315		66261108066	66261108069	
	S/C	Fine	4,500	3	C4415	66261108064	66261108065	63642553754	63642576004
	S/C	Very Fine	4,500	3	C4515				66261133209
8" x 2" x 3"	S/C	Med.	4,500	2	C4315		66261114473		
	S/C	Fine	4,500	2	C4415		66261114480	66261114483	66261114486
	S/C	Very Fine	4,500	2	C4515				66261133210
10" x 1" x 5"	A/O	Med.	3,600	3	C2315		66261134185		
	S/C	Fine	3,600	3	C4415			66261106554	66261114488
10" x 2" x 5"	S/C	Fine	3,600	1	C4415			63642581044	66261114489
12" x 1" x 5"	A/O	Med.	3,000	2	C2315				66261134186
	S/C	Fine	3,000	2	C4415	66261108053	66261114481	66261114484	66261114074
	S/C	Very Fine	3,000	2	C4515				66261134187
12" x 2" x 5"	S/C	Fine	3,000	1	C4415		66261114482	66261112766	66261114490

Convolute Wheels *continued*

NORTON SERIES 4000 A/O & S/C

BEST CHOICE FOR HEAVY DEBURRING APPLICATIONS



FEATURES

- Advanced resin bond system
- High quality synthetic web

BENEFITS

- Free cutting
- Use both wet and dry
- Long life for heavy deburring, edge breaking and removing parting lines on exotic metals

TIER: **BEST**

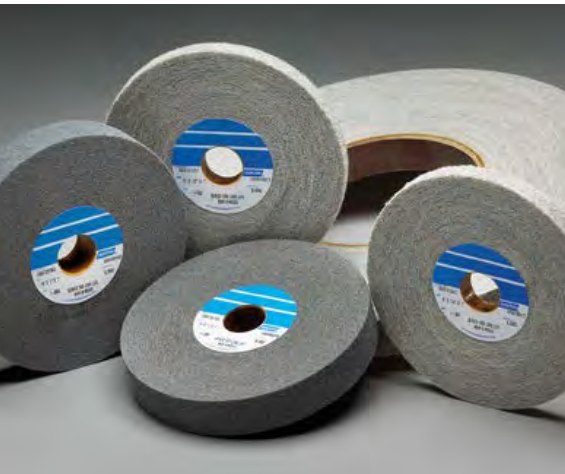
BRAND: Norton

TRADENAME: **SERIES 4000 CONVOLUTE WHEELS**

SIZE (D x T x H)	ABRASIVE	GRIT	MAX. RPM	STD. PKG.	8 DENSITY PART #	9 DENSITY PART #
6 x 1/2 x 1	S/C	F	6,000	4		66261004021
6 x 1 x 1	A/O	M	6,000	3	66261004208	
	S/C	F	6,000	3	66261004142	66261004141
8 x 1 x 3	A/O	M	4,500	3	66261004165	
	S/C	F	4,500	3	66261004123	66261004135
12 x 1 x 5	S/C	F	3,000	2	66261004284	66261004148
12 x 2 x 5	S/C	F	3,000	1		66261004011

NORTON SERIES 1000 LONG LIFE A/O & S/C

BETTER CHOICE FOR GENERAL DEBURRING, BLENDING, AND FINAL FINISHING



FEATURES

- Smear and heat-resistant formula
- Dense web construction (9 density)
- More open web construction (7 density)
- Waterproof
- Non-metallic
- Optimum grain/resin formulation
- Conformable and flexible

BENEFITS

- Consistent, high quality results
- Starting point for deburring, blending, polishing and finishing applications
- Smear-resistant and cool cutting on light deburring applications
- Use dry, wet or with oil
- No contamination of workpiece
- Durable, long life construction with versatile application range and consistent cut rate and shed resistance
- Less operator fatigue

TIER: **BETTER**

BRAND: Norton

TRADENAME: **SERIES 1000 LONG LIFE CONVOLUTE WHEELS**

SIZE (D x T x H)	ABRASIVE	GRIT	MAX. RPM	STD. PKG.	7 DENSITY PART #	8 DENSITY PART #	9 DENSITY PART #
6 x 1/2 x 1	A/O	M	6,000	4	66261018857		66261018650
	S/C	M	6,000	4			66261019540
	S/C	F	6,000	4	66261018628		66261018629
6 x 1 x 1	A/O	M	6,000	3	69957397884	66261018636	66261019337
	S/C	M	6,000	3	69957397882	69957397883	66261018630
	S/C	F	6,000	3	66261018631	66261018774	66261018632
8 x 1 x 3	A/O	M	4,500	3	69957397885	66261018855	66261018633
	S/C	M	4,500	3	69957394610	66261018673	66261018997
	S/C	F	4,500	3	66261018639	66261018640	66261018641
12 x 1 x 5	A/O	M	3,000	2	69957397887		66261018896
	S/C	M	3,000	2		66261018786	66261018908
	S/C	F	3,000	2			66261018626

Convolute Wheels *continued*

NORTON LIGHT FINISHING SILICON CARBIDE

BEST CHOICE FOR LIGHT DEBURRING, POLISHING, AND FINE FINISHING APPLICATIONS



FEATURES

- Controlled cut rate
- Very conformable
- Superior form holding
- Durable resin bond system
- Advanced manufacturing process

BENEFITS

- Prevents “over benching”
- Deburrs and polishes without altering geometry
- Operator friendly, reduces fatigue
- Consistent, reliable edge breaking and finishing with minimal wheel dressing and reshaping
- Less dust and shedding with more uniform wear
- Substantial extended wheel life in a soft, conformable wheel
- Consistent web forming and grain distribution produce consistent finish on intricate polishing applications

TIER: **BEST**

BRAND: Norton

TRADENAME: **LIGHT FINISHING CONVOLUTE WHEELS**

SIZE (D x T x H)	ABRASIVE	GRIT	MAX. RPM	6 DENSITY PART #	7 DENSITY PART #	8 DENSITY PART #
6 x 1/2 x 1	S/C	F	6,000	66261092322	66261092324	66254421572
6 x 1 x 1	S/C	F	6,000	66254403708	66254403709	66254421573
8 x 1/2 x 3	S/C	F	4,500	66254403707	66254409698	66254421575
8 x 1 x 3	S/C	F	4,500	66261095702	66254409924	66254421577

All Light Finishing convolute wheels are non-stock. Ask your Norton representative for current lead-times and order quantities.

NORTON METAL FINISHING ALUMINUM OXIDE

BEST CHOICE FOR DECORATIVE FINISHING, BLENDING, AND FINAL FINISHING



FEATURES

- Premium, medium grit aluminum oxide grain
- Dense, very durable web
- Strongest resin binders
- Uniform grain dispersion and coating
- Available in 5 and 6 densities

BENEFITS

- Generates uniform distinct satin and antique finishes
- Can be used for blending applications
- Resilient, long life construction
- Clean and condition without gouging or changing dimensions of workpiece
- Ideal for blending and matching #3 and 4 mil. finishes, and surface prep for buffing, polishing and applying decorative finishes

TIER: **BEST**

BRAND: Norton

TRADENAME: **METAL FINISHING CONVOLUTE WHEELS**

SIZE (D x T x H)	ABRASIVE	GRIT	DENSITY	MAX. RPM	STD. PKG.	PART #
6 x 1 x 1	A/O	M	5	6,000	3	66261007936
		M	6	6,000	3	66261010148
6 x 2 x 1	A/O	M	5	6,000	2	66261007957
		M	6	6,000	2	66261009635
8 x 1 x 3	A/O	M	5	4,500	3	66261007831
8 x 2 x 3	A/O	M	5	4,500	2	66261007904
		M	6	4,500	2	66261012971
12 x 1 x 5	A/O	M	5	3,000	2	66261007434
		M	6	3,000	2	66261009481
12 x 2 x 5	A/O	M	5	3,000	1	66261007212
14 x 2 x 8	A/O	M	5	2,550	1	66261007817
		M	6	2,550	1	66261012041

Convolute Wheels *continued*

NORTON CLEAN & FINISH SILICON CARBIDE

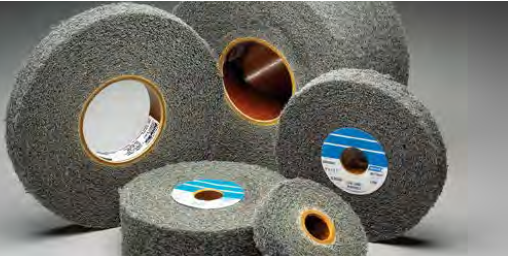
BEST CHOICE FOR FINE FINISHING WITH LIGHT PRESSURE

FEATURES

- Silicon carbide grain
- Open mesh construction

BENEFITS

- Good for blending, rust removal, applying decorative, contrast finishes and low- to moderate-speed applications
- Not used for deburring
- Used with light to moderate pressure, low speed



TIER: **BEST**

BRAND: Norton

TRADENAME: **CLEAN & FINISH
CONVOLUTE WHEELS**

SIZE (D x T x H)	ABRASIVE	GRIT	DENSITY	MAX. RPM	STD. PKG.	PART #
4 x 1 x 1	S/C	M	4	4,000	10	66261058502
		F	4	4,000	10	66261058501
6 x 1 x 1	S/C	M	4	3,000	4	66261058507
		F	4	3,000	4	66261058506
6 x 2 x 1	S/C	M	4	3,000	2	66261058510
		F	4	3,000	2	66261058509
6 x 3 x 1	S/C	M	4	3,000	1	66261058512
6 x 4 x 1	S/C	M	4	3,000	1	66261058514
8 x 1 x 3	S/C	M	4	2,500	3	66261058518
8 x 2 x 3	S/C	M	4	2,500	2	66261058521
8 x 3 x 3	S/C	M	4	2,500	1	66261058524
8 x 4 x 3	S/C	M	4	2,500	1	66261058526

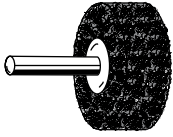
Aluminum Reducing Bushings for Flap and Convolute Wheels

- Durable, aluminum one-piece-design flanges with integrated "contact washer"
- Snug fit; extended usable life
- Available in stock and non-stock sizes in many combinations of ID hole reduction

WHEEL CENTER HOLE	BUSHING REDUCES HOLE SIZE TO	FOR WHEEL DIAMETER	STD. PKG.	PART #
1	3/8	4 - 6	1 Pair	66261080522
	1/2	4 - 6	1 Pair	66261080523
	5/8	4 - 6	1 Pair	66261080524
	3/4	4 - 6	1 Pair	66261080525
	7/8	4 - 6	1 Pair	66261080526
2	1/2	6	1 Pair	66261080527
	5/8	6	1 Pair	66261080528
	1	6	1 Pair	66261080529
	1-1/4	6	1 Pair	66261080530
3	1	8	1 Pair	66261080531
	1-1/4	8	1 Pair	66261080532
	1-1/2	8	1 Pair	66261080383
	2	8	1 Pair	66261080514
5	1	10 and 12	1 Pair	66261080533
	1-1/4	10 and 12	1 Pair	66261080534
	3	10 and 12	1 Pair	66261080535
8	1-1/4	14	1 Pair	66261080536
10	1-1/4	16	1 Pair	66261080520



1/4" Mounted Steel Shanks



TIER:	BETTER	GOOD	BETTER	GOOD
BRAND:	Norton	Merit	Norton	Merit
TRADENAME:	INTERLEAF	INTERLEAF	NON-WOVEN	NON-WOVEN

SIZE (D x W x SK.)	ABRASIVE	COATED GRIT	NON-WOVEN GRIT	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #
2 x 1 x 1/4	A/O	60	Medium	12,000	20	66261051720			
	A/O	60	Very Fine	12,000	10		08834138122		
	A/O	80	Medium	12,000	20	66261051721			
	A/O	80	Very Fine	12,000	10		08834138123		
	A/O	120	Medium	12,000	10	66261051722		66261051716*	66261189992*
	A/O	120	Very Fine	12,000	10		08834144457		
	A/O	180	Very Fine	12,000	10		08834144458		
2 x 1-1/2 x 1/4	A/O	320	Very Fine	12,000	10		08834144459	66261051717*	69957399202
	A/O	80	Very Fine	12,000	10		08834138125		
	A/O	120	Very Fine	12,000	10		08834138126		
3 x 1 x 1/4	A/O	320	Very Fine	12,000	10		08834138128		
	A/O	60	Very Fine	12,000	10		08834138129		
	A/O	80	Very Fine	12,000	10		08834138130		
	A/O	120	Medium	12,000	10	66261051725*		66261051718*	08834131921
	A/O	120	Very Fine	12,000	10		08834138118		
	A/O	180	Fine	12,000	10		08834138120		
	A/O	-	Very Fine	12,000	10			66261051719*	
3 x 2 x 1/4	A/O	320	Very Fine	12,000	10		08834138119		
	A/O	120	Medium Fine	8,000	10			66261058474	
	A/O	120	Very Fine	8,000	10		08834144460		
	A/O	180	Very Fine	8,000	10		08834144461		
4 x 2 x 1/4	A/O	80	Very Fine	12,000	10		08834121115		
	A/O	120	Very Fine	12,000	10		08834120458		

*Standard package quantity = 20

Refer to Non-Woven Convolute Wheel section for Flap Wheel Reducing Bushings.



Arbor Hole Mounts



TIER:	BETTER	GOOD	BETTER	GOOD
BRAND:	Norton	Merit	Norton	Merit
TRADENAME:	INTERLEAF	INTERLEAF	NON-WOVEN	NON-WOVEN

SIZE (D x W x SK.)	ABRASIVE	COATED GRIT	NON-WOVEN GRIT	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #
3 x 2 x 3/8	A/O	60	Very Fine	12,000	10		08834139000		
	A/O	120	Very Fine	12,000	10		08834139001		
	A/O	240	Very Fine	12,000	10		08834139028		
	A/O	320	Very Fine	12,000	10		08834139024		
4 x 2 x 5/8	A/O	60	Very Fine	12,000	10		08834126025		
	A/O	240	Very Fine	12,000	10		08834126014		
	A/O	320	Very Fine	12,000	10		08834126027		
6 x 1 x 1	A/O	120	Very Fine	6,000	10		08834126006		
	A/O	240	Very Fine	6,000	10		08834126030		
6 x 1 x 2	A/O	-	Medium	3,000	4			66261058456	
	A/O	180	Fine	3,000	4			66261058487	
	S/C	-	Fine	3,000	4			66261058451	
	S/C	-	Very Fine	3,000	4			66261058450	05539512658
6 x 2 x 1	A/O	80	Very Fine	6,000	10		08834126009		
	A/O	180	Very Fine	6,000	10		08834126018		
6 x 3 x 1	A/O	80	Very Fine	6,000	6		08834126055		
8 x 1 x 3	A/O	120	Medium	2,500	3	66261010711			
		-	Fine	2,500	3			66261058491	
8 x 2 x 3	A/O	-	Medium	2,500	2			66261000889	
	A/O	-	Medium	2,500	2				05539512677
	A/O	-	Fine	2,500	2			66261058493	
12 x 1 x 5	A/O	80	Medium	1,900	2	66261010712			
12 x 2 x 5	A/O	-	High Strength	1,900	1			66261005070	05539562637

MERIT.





Norton non-woven belts are a combination of strong synthetic mesh and quality abrasive, bonded together by a smear-resistant adhesive. The open construction of non-woven material enables aggressive cutting action and improved surface finish while maintaining its non-loading feature.

Applications:

Removing surface defects, light edge burrs, parting lines, flashing, rust, oxides, corrosion, paints, and scale; blending mill marks, tool marks, uneven edges, and applying decorative finishes.

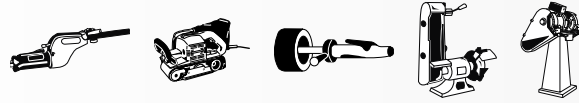
Abrasive Grain:

Engineered Aluminum Oxide, Aluminum Oxide

Grit Range:

Extra Coarse (Black), Coarse (Brown), Medium (Maroon), Fine (Green), Very Fine (Blue)

Machine Used:



APPLICATION/GRIT RECOMMENDATION GUIDE



	EXTRA COARSE	COARSE	MEDIUM	FINE	VERY FINE
Scale Removal	X				
Stock Removal		X			
Heavy Deburring		X			
Light Deburring			X		
Light Finishing			X		
Blending				X	
Finishing					X

NORTON VORTEX RAPID PREP ALUMINUM OXIDE

BETTER CHOICE FOR FINISHING AND BLENDING APPLICATIONS



FEATURES

- Proprietary engineered Vortex aluminum oxide abrasive grain and new coating method
- Clean Bond resin system, aerospace-tailored

BENEFITS

- Most consistent cutting and finishing of surface conditioning products on the market
- Combine maximum cutting speed with the finish of fine grits
- Reduce process times by 50+% by eliminating 2 to 5 grit sequences to 1 step in your technical blending operations
- More resistant to edge wear; up to 4X the life of competitive products
- Friable grain structure keeps Ra specs throughout belt life and reduces scrap and rework
- Smear-free, even on high nickel content alloys
- Will not load on aluminum and soft metals, as competitive products can

NORTON RAPID PREP ALUMINUM OXIDE

GOOD CHOICE FOR FINISHING AND BLENDING APPLICATIONS



FEATURES

- Clean Bond resin system, aerospace-tailored
- Proprietary new coating method
- Extended form holding

BENEFITS

- Smear-free, even on high nickel content alloys
- Will not load on aluminum and soft metals, as competitive products can
- Thick layer of grain throughout the product extends life; grain does not sit on top of fibers as other competitive products can
- Lowest total cost of consumable tooling per workpiece
- 50% better life than competitive aluminum oxide products

Norton Rapid Prep Vortex

		TIER:	BETTER	BETTER	BETTER	BETTER	BETTER
		BRAND:	Norton	Norton	Norton	Norton	Norton
		TRADENAME:	VORTEX RAPID PREP	VORTEX RAPID PREP	VORTEX RAPID PREP	VORTEX RAPID PREP	VORTEX RAPID PREP
		ABRASIVE:	Engineered A/O	Engineered A/O	Engineered A/O	Engineered A/O	Engineered A/O
		GRIT/COLOR:	EXTRA COARSE	COARSE	MEDIUM	FINE	VERY FINE
WIDTH	LENGTH	STD. PKG.	PART #	PART #	PART #	PART #	PART #
2	18-15/16	12	66623313274	66623335031	66623333675	66623333649	66623333688
2-3/4	15-1/2	10	66623333718	66623333628	66623333676	66623333655	66623333694
3	10-11/16	12	66623333719	66623335039	66623335110	66623333656	66623333695
	18	10	66623335149	66623335040	66623335112	66623333657	66623335135
3-1/2	15-1/2	8	66623333725	66623335042	66623335118	66623333665	66623335139
4	24	8			66623335119		

Norton Rapid Prep

		TIER:	GOOD	GOOD	GOOD	GOOD	GOOD	
		BRAND:	Norton	Norton	Norton	Norton	Norton	
		TRADENAME:	RAPID PREP	RAPID PREP	RAPID PREP	RAPID PREP	RAPID PREP	
		ABRASIVE:	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	
		GRIT/COLOR:	EXTRA COARSE	COARSE	MEDIUM	FINE	VERY FINE	
WIDTH	LENGTH	STD. PKG.	PART #	PART #	PART #	PART #	PART #	
1/4	18	24		66261011420	66261012524	66623333424	66623333511	
	24	24		69957392606	66261097565	66623333425	66623333512	
1/2	12	24		66261003177	66261006465	66623318175	66254499884	
	18	24		66261055309	66261055310	66623333426	66261055311	
	24	24		66261055312	66261008972	66254490859	66261019876	
3/4	18	12		66261002111	66261015808	66254490858	66261003622	
	20-1/2	12		66261083899	66261003260	66623333427	66623333515	
	80	12		66623333411	66623333505	66623333428	66623333516	
1	18	12		66261007023	66261017898	66623333429	66623333518	
	21	12		66623333412	66623336005	66623333430	66623333519	
	30	12		66261019801	66623336006	66623333431	66261001972	
	42	12		66261008317	66254441289	66623333432	66623333521	
	60	12		66623333413	66623333506	66623333433	66261055412	
	64	12		66623333414	66623301513	66623333434	66261055413	
	72	12		66261194240	66261006378	66254493830	66261005583	
	132	8		66623314981				
	132	10			66261011414	66254436886	66623333525	
	1-1/2	60	8		66623333415	66261007644	66623333435	66623303624
2	18-15/16	12	66261018226	66261018224	66623333507	66623333436	66623333528	
	34	12		66261063309	66623312203	66623333437	66623333529	
	48	10		66261006504	66261006648	66623333438	66623333531	
	60	8		66623333416	66261189669	66623333439	66623333532	
	72	8		66261002571	66261007757	66623333440	66261002307	
	132	6				66261069525	66623333533	
2-1/2	60	6		66254429365	66254441491	66623333441	66623333534	
2-3/4	15-1/2	10	66623333578	66623333417	66623333508	66623333442	66623333535	
3	10-11/16	12	66623333580	66261018076	66261067469	66623333443	66623333536	
	18	10	66254428772	66254496043	66254428776	66623333444	66261019836	
	21	10	66623333584	66623333418	66261010870	66623333445	66623333537	
	24	10	66254433359	66623314158	66254428773	66623333446	66261055593	
	72	6		66623333419	69957396833	66623333447	66261003176	
	80	4		66623333420	66261007149	66623333448	66623333542	
	90	4		66623333421	66623333509	66623333449	66623333541	
	118	4		66623333422	66623333510	66623333450	66261047121	
	132	4		66254490470	66261055322	66623333451	66623333543	
	3-1/2	15-1/2	8	66623333595	66261055324	66254444576	66623333452	66261055326
	4	24	8	66623333596	66254495931	66261031667	66623333453	66623333545
		36	6		66623333423	66261002321	66623333454	66623333546
132		2		66261009056	66261006898	66623333455	66623333547	
168		2		63642576650	66261009174	66623333456	66623333548	
6	48	4		66261055330	66261055331	66623333457	66261055332	

If you do not see the Rapid Prep belts you need in our stock offering, call your local Norton distributor to check for made-to-order availability.

Introduction

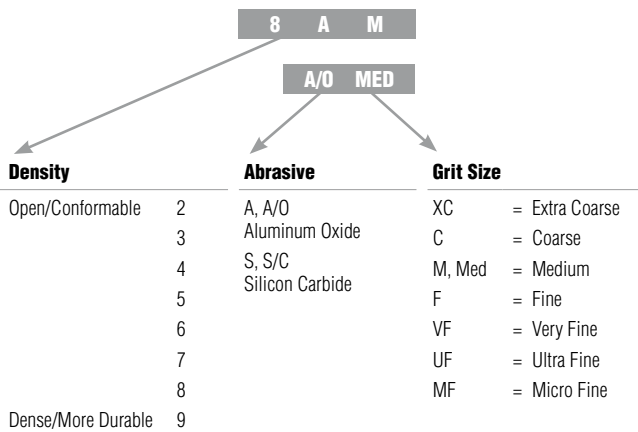
Most Norton Bear-Tex and Merit products consist of a non-woven web of nylon fibers impregnated throughout with abrasive grain and bonded with synthetic resins. This design produces a cushioned, three-dimensional material that is extremely pliable and long lasting. The uniform dispersion of abrasive throughout the web provides a continuous supply of new grain as the old grain and fibers wear away during use.

Norton Bear-Tex and Merit products, with their open mesh construction, are waterproof, washable, resilient, conformable, non-loading, non-conductive, non-metallic and non-rusting. Non-woven wheels are easily pre-formed to conform to special-shaped work pieces.

Since non-woven products are designed for use where stock removal is not required, they begin where other abrasives leave off. The relatively non-aggressive nature of nylon and grit inherent in the material makes it ideal as a finishing tool. While 60 to 80 grits are considered intermediate sizes in other products, they are considered coarse for non-woven items.

Used wet or dry, Norton Bear-Tex and Merit non-woven products offer the following advantages: controlled cut (with little or no stock removal) allows for increased productivity, consistent, uniform finish, ability to automate operations, minimized smearing and reduced operator training. These advantages make our non-woven products an excellent alternative to bristle brushes, set-up wheels, greaseless compounds and steel wool.

Product Identification System



Abrasives

Ceramic alumina, silicon carbide and aluminum oxide abrasives are offered. Ceramic alumina cuts the fastest and is the most cost effective on large-volume applications. Silicon carbide is sharper, cuts faster than aluminum oxide, and produces finer scratch patterns on most surfaces. Aluminum oxide is more durable and tends to last longer. It causes less discoloration on aluminum, and is more aggressive on certain applications such as hardened steel parts. Norton Bear-Tex hand pads are also available in a non-abrasive material.

Grits

Grit refers to the size of the abrasive grain impregnated into the nylon web. The coarser the grit, the more aggressive the cut, the rougher the finish. The finer the grit, the less aggressive the cut and the resulting surface finish will be finer, if all other conditions are equal.

GRIT DESIGNATIONS	GRIT SIZE
Extra Coarse (XC)	24 – 36
Coarse (C)	50 – 80
Medium (M)	100 – 150
Fine (F)	180 – 220
Very Fine (VF)	240 – 360
Super Fine (SF)	400
Ultra Fine (UF)	600
Micro Fine (MF)	800 – 1200

Densities

The product “density” refers to the number of fibers which have been compressed into the nylon web material. Under identical conditions, harder density wheels cut faster, last longer and produce finer finishes than softer density wheels. Softer density wheels offer greater conformability and have less tendency to load or burn the work piece.

Fiber Sizing

Several nylon fiber sizes are used in the manufacture of Norton Bear-Tex and Merit web material because the fiber size is a significant factor in the coating process, as each produces distinct cutting characteristics.

Bonding Agents

Waterproof resins are used in the manufacture of Norton Bear-Tex and Merit web material to bond the nylon fibers together and to firmly anchor the abrasive grains throughout the web.

Conventional Finishing Methods Versus Norton Bear-Tex and Merit Non-Woven Products

The following chart outlines the advantages achievable when using our products as alternatives to other cleaning, blending, deburring and finishing methods. These products are listed in the sequence of normal preference for the application stated. However, because of the numerous variables, only testing can ensure selection of the most cost-effective product.

CONVENTIONAL FINISHING METHOD	KEY APPLICATION	NORTON/MERIT PRODUCT ALTERNATIVES	ADVANTAGES OF NORTON/MERIT PRODUCT VERSUS ALTERNATE FINISHING METHODS
Bristle Brushes	Cleaning	Clean & Finish Wheels Metal Finishing Wheels Flap Wheels	Superior cleaning performance Higher productivity No slurry or compound required More consistent finish Eliminate compound dust
Greaseless Compounds	Finishing	Flap Wheels Convolute Wheels Unified Wheels	Reduced maintenance No compound, instant set-up Elimination of compound dust More uniform finish More consistent work rate
Set-up Wheels	Blending/ Deburring	Convolute Wheels Unified Wheels	No break-in time required More consistent cut More uniform finish Maintain geometry Safer, no flying wheel pieces
Steel Wool	Cleaning	Rolls Discs Hand Pads	Faster, longer life Less pressure required Non-rusting, cleaner Safer, no splinters

Getting the Most Out of Norton Bear-Tex and Merit Wheels

Maximum wheel life and best surface conditioning results can be achieved by closely adhering to the following recommendations.

1) Wheel Direction

Convolute wheels and interleaf flap wheels must always run in the direction indicated by the arrow printed on the side of each wheel. Conventional flap wheels and unified wheels can be run in either direction.

2) Wheel Speed

Wheel speed is an important factor in that it affects product finish, rate of cut, and wheel life. In general, fast wheel speeds give harder action and a finer finish; whereas, slower speeds give a softer action and a coarser finish for the same wheel density.

The following are recommended operating speeds for the most common applications.

APPLICATION	RECOMMENDED SPEED
Cleaning and upgrading of surface conditions	2200 to 6000 SFPM
Cut-buffing on metal surfaces	6500 to 8000 SFPM
Deburring	5500 to 8000 SFPM
Decorative finishing	500 to 3000 SFPM
Imparting decorative finishes	900 to 3000 SFPM
Oxide removal	3500 to 6500 SFPM

Testing might show that a slower or faster speed is desirable for specific operations. Never exceed the maximum RPM rating of the wheel.

3) Pressure

Light to medium pressure is recommended for most operations. Flap wheels require much lighter pressure to perform properly than other non-woven wheels; unified wheels can withstand much higher pressures in order to perform deburring jobs. In all cases, avoid excessive pressure which might result in wheel deformation and damage to the work surface.

4) Feed Speed

Low feed speed reduces the number of workpieces completed, while producing a shorter scratch pattern. Slow feed speed allows for longer dwell time and permits more work to be done on each piece. Conversely, a fast feed speed increases the number of workpieces completed, while producing a longer scratch pattern.

5) Oscillation

Oscillation may be used to break up scratch lines and produce a more uniform finish. Additionally, an increase in cut might be experienced. A general starting point for oscillation is 3/8" amplitude at 200 cycles per minute.

6) Lubricants

Lubricants, such as water, water soluble oil, and straight oil, will decrease the heat generated while running, improve the luster, and reduce the surface finish. The higher the viscosity of the lubricant, the lower the surface finish (RMS value) produced.

Factors in Wheel Choice

This chart provides a relative comparison of other Norton Bear-Tex wheel variables. It can serve as a useful guide in choosing the most suitable product for a given application. However, as many other factors affect wheel performance, this chart can only be general in nature. The most cost-effective results can always be obtained by wheel testing on the application.

1 Wheel Conformability	MOST CONFORMABLE (SOFT)						LEAST CONFORMABLE (HARD)	
	←	Flap Wheels	Clean & Finish	Metal Finishing	Rapid Finish GP 7 Density	Rapid Finish GP 8 & 9 Density	Series 4000	→
2 Wheel Openness	OPEN MESH						CLOSED MESH	
	←		Clean & Finish	Metal Finishing	Rapid Finish GP 7 Density	Rapid Finish GP 8 & 9 Density	Series 4000	→
3 Wheel Aggressiveness	MOST AGGRESSIVE						LEAST AGGRESSIVE	
	←		Metal Finishing		Clean & Finish	Rapid Finish GP	Flap Wheels	→
4 Finishing Action	COARSER						FINER	
	←		Metal Finishing	Clean & Finish	Series 4000	Rapid Finish GP Series 4000	Flap Wheels	→
5 Pressure for Best Results	LIGHTER						HIGHER	
	←		Flap Wheels	Clean & Finish	Metal Finishing Rapid Finish GP 7 Density	Rapid Finish GP 8 & 9 Density	Series 4000	→

* On steel surfaces, silicon carbide wheels will produce a brighter finish than aluminum oxide wheels.

Surface Finish Variables

Changes in any one of many factors can affect the surface finish on the work piece. This chart shows the effect on surface finish by changes in single factors of product specifications. Arrows have been used to signify the trend direction. The arrow length does not signify that the effect of each factor is equal.

Variable Factor	Rough Finish High Rms Reading	Smooth Surface Lower Rms Reading
1 Grit Size	Coarse ←	→ Very Fine
2 Wheel Grade	Soft ←	→ Hard
3 Wheel Speed	Slow ←	→ Fast
4 Feed Speed	Faster (Long Scratch) ←	→ Slower (Short Scratch)
5 Oscillation	No Oscillation ←	→ Oscillation
6 Lubricants and Compounds	Dry ←	→ Straight Oil
	← Water	→ Soluble Oil
	←	→ Compounds

complementing our **ABRASIVES PORTFOLIO**

To help you finish the job, Norton accessory items let you one-stop shop. Our goal is to get it finished faster, easier and with less hassle of multiple vendors and invoices.



Get Wired

Our broad wire brush offering includes the basic shapes and configurations you'll need for heavy- to light-duty brushing applications.



Just the Right Amount of Fiber

Trap dirt, grime or liquids with microfiber cloths. Whether you are cleaning, dry tacking, or polishing, these cloths make quick work, trapping all unwanted particles.



Unmasking the Mystery

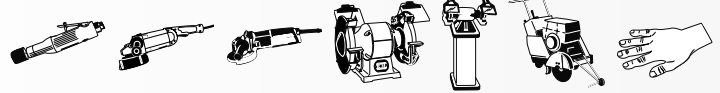
Masking tape choices: Professional High Heat for maximum performance and clean release on multiple surfaces and Blue Core 14-Day tape for easy on/off.



Our Norton wire brush broad offering includes all the basic shapes and configurations. Informative, attractive packaging clearly explains dimensions, structure, safety and machine usage. All brushes are individually clamshell packaged unless otherwise noted. When using wire brushes, be sure to comply with ANSI B165 "Power-Driven Brushing Tools: Safety Requirement for the Design, Care and Use." and safety documents on www.nortonabrasives.com website.

- Applications: Cleaning rust, scale and dirt; light deburring; edge blending; roughening for adhesion; finishing for appearance; finish preparation prior to plating or painting
- Shapes: Cup, saucer cup, wheel, joint/crack, end brush, hand brush
- Wire Design: Twist knot, crimped, and stringer bead
- Other: Color-coded for easy identification:
- Machine Used:

STEEL/METAL **STAINLESS**



TWIST KNOT WIRE SAUCER CUP BRUSHES

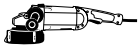
IDEAL FOR CLEANING CORNERS, RECESSES, AND OTHER HARD-TO-REACH AREAS – FOR STEEL/STAINLESS

FEATURES

- Twist knot style

BENEFITS

- For heavy-duty cleaning



DIAMETER x WIRE THICKNESS x MOUNT	MAX. RPM	STD. PKG.	APPLICATION	PART #
4 x .020 x 5/8-11	15,000	5	CARBON	66252833483
5 x .020 x 5/8-11	12,500	10	CARBON	66252835585
5 x .020 x 5/8-11	12,500	10	STAINLESS	66252835586

HIGH PERFORMANCE (HP) CABLE CRIMPED WIRE CUP BRUSHES

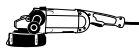
FOR LIGHT- TO MEDIUM-DUTY BRUSHING APPLICATIONS ON FLAT OR IRREGULAR SURFACES, AND BEVEL BUFFING – FOR STEEL

FEATURES

- 12 wires of .009" brass-coated steel are bundled together into a group, then crimped
- Cable crimped wire breaks down in smaller pieces than standard crimped brushes

BENEFITS

- Creates a 50% longer lasting brush compared to standard crimped brushes; better flexibility on irregular surfaces
- Safer to use
- Protective guard



DIAMETER x WIRE THICKNESS x MOUNT	MAX. RPM	STD. PKG.	APPLICATION	PART #
Crimped Cup with Protective Guard – Single Row				
3 x (12 x .009) x 5/8-11	15,000	5	CARBON	66252833493
4 x (12 x .009) x 5/8-11	9,000	5	CARBON	66252833494

CRIMPED WIRE CUP BRUSHES

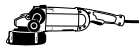
FOR LIGHT- TO MEDIUM-DUTY BRUSHING APPLICATIONS ON FLAT OR IRREGULAR SURFACES, AND BEVEL BUFFING – FOR STEEL

FEATURES

- Highly flexible heavy wire fill

BENEFITS

- Fast cutting



DIAMETER x WIRE THICKNESS x MOUNT	MAX. RPM	STD. PKG.	APPLICATION	PART #
3 x .014 x 5/8-11	15,000	5	CARBON	69936653341
3 x .014 x 5/8-11	15,000	5	STAINLESS	66252836362
4 x .014 x 5/8-11	9,000	5	CARBON	69936653347
4 x .020 x 5/8-11	9,000	5	STAINLESS	66252843844
6 x .014 x 5/8-11	6,000	5	CARBON	69936653348
6 x .020 x 5/8-11	6,000	5	CARBON	69936653349

TWIST KNOT WIRE CUP BRUSHES

HIGH IMPACT CUTTING AND CLEANING ON MORE DEMANDING APPLICATIONS – FOR STEEL/STAINLESS

FEATURES

- Rigid structure
- Available with or without plastic guard
- Protective guard opens up into a shield
- Single row construction
- Double row construction

BENEFITS

- High impact cutting and cleaning on more demanding applications
- Application-specific
- Prevents wire, dust and/or projection from reaching the end-user
- Provides for a friendly handling of the brush, preventing potential pricking caused by the wire ends
- Limits flaring of the brush on corners and angles
- More aggressive; provides twice the cutting points of a single row cup brush for heavy-duty action in very severe applications



DIAMETER x WIRE THICKNESS x MOUNT	MAX. RPM	STD. PKG.	APPLICATION	PART #
Knotted Cup With Protective Guard – Single Row				
2-3/4 x .020 x 5/8-11	15,000	5	CARBON	66252833492
4 x .020 x 5/8-11	9,000	5	CARBON	66252833496
5 x .020 x 5/8-11	6,500	5	CARBON	66252833497
Knotted Cup – Single Row				
2-3/4 x .020 x 5/8-11	15,000	5	CARBON	69936653336
2-3/4 x .020 x 5/8-11	15,000	5	STAINLESS	69936653340
4 x .020 x 5/8-11 with bridle	9,000	5	CARBON	69936653345
4 x .020 x 5/8-11 with bridle	9,000	5	STAINLESS	66252833947
6 x .020 x 5/8-11	6,000	5	CARBON	69936605965
6 x .020 x 5/8-11	6,000	5	STAINLESS	66253371115
6 x .035 x 5/8-11	6,000	5	CARBON	69936602003
Knotted Cup – Double Row				
6 x .020 x 5/8-11	6,000	5	CARBON	69936653346

CRIMPED WIRE WHEEL BRUSHES

EXCELLENT PERFORMANCE FOR DEBURRING, REMOVING RUST, CORROSION AND DIRT – FOR STEEL/STAINLESS

FEATURES

- Brushes may be used individually or stacked on a shaft

BENEFITS

- Single-section, narrow-faced brushes are ideal for general-purpose brushing of uneven or difficult-to-reach surfaces
- Single section, medium-faced brushes clean larger surface areas and have longer life



DIAMETER x WIRE THICKNESS x HOLE	MAX. RPM	STD. PKG.	APPLICATION	PART #
Crimped Narrow 3/4" Face				
6 x .014 x 1/2-2**	6,500	5	CARBON	69936653306
Crimped Medium 1" Face				
4-1/2 x .014 x 5/8-11	13,000	6	CARBON	66253370278
6 x .014 x 1/2-2**	6,500	5	CARBON	69936653324
8 x .014 x 1/2-2**	4,500	5	CARBON	69936653326

** 7 bushing sizes included with each brush (fit 1/2" - 2")

STANDARD TWIST KNOT WIRE WHEEL BRUSHES

IDEAL FOR TOUGHER WELDING AND METAL FABRICATION APPLICATIONS (REMOVING WELD SCALE SPATTER, EXTRA-HEAVY RUST AND CORROSION, OR SURFACE ROUGHENING) – FOR STEEL/STAINLESS



FEATURES

- Twist knot wire design
- Pipeline: heavy-duty knot construction

BENEFITS

- Provides added rigidity for extra cutting and cleaning power
- Small diameter wheels are used for small- to medium-duty jobs requiring some flexibility and lighter brushing action
- Stiffer, longer-lasting knots for tougher applications / heavy build-up
- Longest life for brushing/cleaning joints and preparing expansion joints for filling and scaling

DIAMETER x WIRE THICKNESS x MOUNT/HOLE	MAX. RPM	STD. PKG.	APPLICATION	PART #
3 x .015 x 1/2-3/8	20,000	5	CARBON	69936653314
4 x .020 x 5/8-11	20,000	5	CARBON	66252838300
4-1/2 x .020 x 5/8-11	20,000	5	CARBON	69936606275
4-1/2 x .020 x 5/8-11 with black hub	20,000	6	CARBON PIPELINE	66252840466
4-1/2 x .020 x 5/8-11	20,000	6	CARBON	69936653331
4-1/2 x .020 x 5/8-11	20,000	5	STAINLESS	69936653333
5 x .020 x 5/8-11	12,500	5	CARBON	66252833487
5 x .020 x 5/8-11	12,500	5	STAINLESS	66252833488
6 x .020 x 5/8-11	12,500	5	CARBON	69936653352
6 x .020 x 5/8-11	12,500	5	STAINLESS	66253371540
6 x .020 x 5/8-1/2	12,500	5	CARBON	69936653327

STRINGER BEAD KNOT WIRE WHEEL BRUSHES

DELIVER HIGH-IMPACT CUTTING AND CLEANING FOR TOUGHEST APPLICATIONS – FOR STEEL/STAINLESS



FEATURES

- Stringer bead wire for hard-to-reach areas
- Heavy-Duty brushes
- Pipeline brushes

BENEFITS

- Specially suited for groove and weld bead, corners, and t-connections
- 1/3 more welding points which provide 50% more resistance to side load pressure
- 6-7/8" brushes have 76 knots vs. standard 56 knot brushes, resulting in 40% more cleaning action and up to 2X life, with similar life for the smaller versions of the heavy-duty brushes
- Longest life for brushing/cleaning joints and preparing expansion joints for filling and scaling

DIAMETER x WIRE THICKNESS x MOUNT	MAX. RPM	STD. PKG.	APPLICATION	PART #
For Right Angle Grinders				
4 x .020 x 5/8-11	20,000	5	CARBON	69936606277
4 x .020 x 5/8-11	20,000	6*	CARBON	66252833489
4 x .020 x 5/8-11	20,000	10*	CARBON	66253370022
4 x .020 x 5/8-11	20,000	6*	CARBON PIPELINE	66252840467
4 x .020 x 5/8-11	20,000	5	STAINLESS	69936606278
4 x .020 x 5/8-11	20,000	6*	STAINLESS PIPELINE	66252842233
4-1/2 x .020 x 5/8-11	20,000	6	CARBON HEAVY-DUTY	66252844886
4-1/2 x .020 x 5/8-11	20,000	6*	CARBON PIPELINE	66252842299
5 x .020 x 5/8-11	12,500	10*	CARBON	66252833490
5 x .020 x 5/8-11	12,500	10*	STAINLESS	66252833491
6 x .020 x 5/8-11	12,500	10*	CARBON	69936653350
6 x .020 x 5/8-11	12,500	10	CARBON HEAVY-DUTY	66252844887
6 x .020 x 5/8-11	12,500	10*	CARBON PIPELINE	66252840469
6 x .020 x 5/8-11	12,500	10	STAINLESS	69936653351
6-7/8 x .020 x 5/8-11	9,000	10*	CARBON	69936653329
6-7/8 x .020 x 5/8-11	9,000	10*	CARBON HEAVY-DUTY	66252843919
6-7/8 x .020 x 5/8-11	9,000	10*	CARBON PIPELINE	66252840468
6-7/8 x .020 x 5/8-11 Double Hub	9,000	6*	CARBON	66252810992
6-7/8 x .020 x 5/8-11	9,000	10*	STAINLESS	66253371116
9 x .020 x 5/8-11	6,000	6	CARBON	66252837993

*Bulk packed item

JOINT/CRACK CLEANING WIRE BRUSHES

DELIVER HIGH-IMPACT FILING AND SCALING FOR TOUGHEST APPLICATIONS – FOR STEEL/STAINLESS



FEATURES

- Joint/Crack cleaning wire wheel brushes

BENEFITS

- Used for brushing joints, cleaning cracks in concrete and asphalt, and preparing expansion joints for filling and scaling

DIAMETER x WIRE THICKNESS x MOUNT	MAX. RPM	STD. PKG.	APPLICATION	PART #
For Walk-Behind Machines – Joint/Crack Cleaning Brushes				
12 x .035 x 1 - DP	4,500	2	Carbon	69936606280

END BRUSHES

CLEAN AND DEBURR A RECESSED AREA OR THE INSIDE DIAMETER OF A TUBE OR PIPE – FOR STEEL/STAINLESS



FEATURES

- Twist knot wire end brushes
- Crimped wire end brushes

BENEFITS

- For more aggressive cutting
- For lighter brushing action and contoured surfaces

DIAMETER x WIRE THICKNESS x MOUNT	MAX. RPM	STD. PKG.	APPLICATION	PART #
Stem Mounted Knotted				
3/4 x .020 x 1/4 Shank	20,000	10*	CARBON	69936653316
1 x .014 x 1/4 Shank	20,000	10*	CARBON	69936606279
1 x .020 x 1/4 Shank	20,000	10*	CARBON	69936653310
Stem Mounted Crimped				
3/4 x .006 x 1/4 Shank	20,000	10*	STAINLESS	69936606145
3/4 x .014 x 1/4 Shank	20,000	10*	CARBON	69936653317
1 x .020 x 1/4 Shank	20,000	10*	CARBON	69936653309

*Bulk packed items

HAND BRUSHES

FOR STEEL/STAINLESS



FEATURES

- Long handle and shoe handle brushes
- Plastic handle scratch brush

BENEFITS

- Steel scratch brushes are made with a high-carbon, brass-coated steel; stainless steel is made with a 304L stainless
- Ergonomic handle
- Crimped wire for longer life
- Wires are wrapped up and around the metal post so they never come out
- Curved face for hard-to-reach places
- Narrow brush allows access into tight areas and slots

SIZE	STD. PKG.	APPLICATION	PART #
Scratch Brush 3 x 19 Long Handle	12	CARBON	66252833948
Scratch Brush 3 x 19 Long Handle	12	STAINLESS	66252833950
Scratch Brush 4 x 16 Shoe Handle	12	CARBON	66252833949
Scratch Brush 4 x 16 Shoe Handle	12	STAINLESS	66252833951
Scratch Brush Plastic Handle	24	CARBON	66252833954
Scratch Brush Plastic Handle	24	STAINLESS	66252833953
Inspection Brush 3 x 7	36	STAINLESS	66252833952



A micro-fiber is a single fiber with a thickness less than a human hair that has been split 16 times and woven into various products. The surface area of a micro-fiber product is increased over 15 times, creating millions of spaces between the fibers which trap dirt, grime or liquids, making this product one of the most absorbent materials. These cloths save you labor, time, and additional costs of multiple cleaning products and chemicals.

Applications: Cleaning Cloth: Used for general-purpose wet or dry applications. Works best when sprayed with a light water mist to deep clean.

Dry Tack Cloth: This woven terry cloth has a low profile to resist snagging and help pick up embedded debris.

Other:

Polishing Cloth: Streak-free cleaning of mirrors, optical lens and highly-polished items.

Color-coded for easy identification

Cleaning Cloth: Blue

Dry Tack Cloth: Red

Polishing Cloth: Yellow

Machine Used:



DESCRIPTION	COLOR	STD. PKG.	PART #
Micro-Fiber Cleaning Cloth 16" x 16"	Blue	20	07660705300
Micro-Fiber Dry Tack Cloth 16" x 16"	Red	20	07660704025
Micro-Fiber Polishing Cloth 16" x 16"	Yellow	20	07660705301

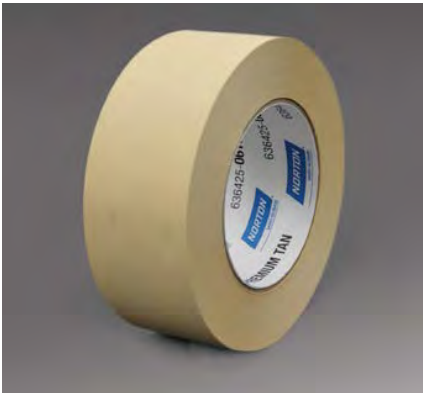


TIP

- Use these micro-fiber cloths dry for general cleaning
- To remove spills, stains or grime, lightly dampen the cloth for best results
- All micro-fiber cloths can be used with or without chemicals
- Micro-fiber cloths can be washed up to 300+ times without losing cleaning and trapping abilities
- Clean often for best results



It is the user's responsibility to refer to and comply with all safety regulations.



Norton Premium Tan High Heat Tape

- Designed for maximum performance and clean release on multiple surfaces
- These high quality masking tapes are ideal for conditions that include exposure to the high heat curing temperatures found in automobile, truck, bus and other transportation assembly operations, as well as aerospace manufacturing applications
- Can be baked up to 230°F and be exposed to wet sanding without adhesive transfer
- Conforms easily to contours and irregular surfaces
- No bleed-through or flaking upon removal
- Available in bulk, accordion-wrapped for protection and work site stocking

SIZE (W x L)	STD. PKG.	PART #
Norton Premium Tan High Heat Tape		
48mm x 54.8m (2" x 60 yards)	24	63642506185
<i>Packed in sleeves, with 4 sleeves to a case</i>		



Norton Blue Core 14-Day Tape

- Our premium paint masking tape has a specially formulated adhesive system that provides optimum low- to medium-tack adhesion and clean removal from a variety of surfaces, for up to 14 days
- Norton Blue Core masking tape can be used indoors or out
- The crepe paper backing is designed to enable easy unrolling and to minimize slivering
- It delivers very sharp, clean edges on smooth- to moderately-textured surfaces

SIZE (W x L)	STD. PKG.	PART #
Norton Blue Core 14 Day Tape		
36mm x 54.8m (1-1/2" x 60 yards)	24	07660721954
48mm x 54.8m (2" x 60 yards)	24	07660721955
<i>Bulk packed as individual rolls</i>		

⚠ WARNING

Improper use of abrasive products might cause grinding wheel breakage and serious injury. Comply with ANSI B7.1, OSHA and Safety Guide furnished with package. Don't overspeed, abuse, or drop wheel. Always use a guard, personal protective equipment and proper mounting procedures.



Speeds

Check machine spindle speed and speed listed on machine against safe maximum operating speed marked on the grinding wheel. Do not overspeed the wheel. Refer to the "Proper Grinding Wheel Operating Speeds and Safety" article on page 336 for more information.



Flanges

When mounting most grinding wheels, use flanges of equal diameter and bearing surface. For exceptions, see ANSI B7.1.



Safety Gloves

Grinding applications are conducted in harsh environments. The use of proper fitting gloves is recommended.



Wheel Guard

Always use the wheel guard as supplied by the machine manufacturer, in the proper position.



Do Not Use Damaged Wheel

Always check each wheel for cracks or damage before use. Never use a damaged wheel.



Eye/Face Protection

Always wear government-approved face and eye protection when using abrasive products.



Hearing Protection

Use of abrasive products can create elevated sound levels. Hearing protection must be worn where required.



Safety Guides, SDS and Wheel Warning Messages

Before using any abrasive materials, READ:

- The Safety Guides
- Wheel Warning Messages
- Safety Data Sheets (SDS)

All Norton products provide information pertaining to safe use. Please take the time to read it carefully. Contact suppliers of the workpiece and abrasive materials for copies of the SDS if one is not readily available. Norton abrasives SDS can be obtained on www.nortonabrasives.com



Dust Protection

Exposure to dust generated from workpiece and/or abrasive materials can result in lung damage and/or other physical injury.

Use dust capture or local exhaust as stated in the SDS. Wear government-approved respiratory protection and eye and skin protection. Failure to follow this warning can result in serious lung damage and/or physical injury.

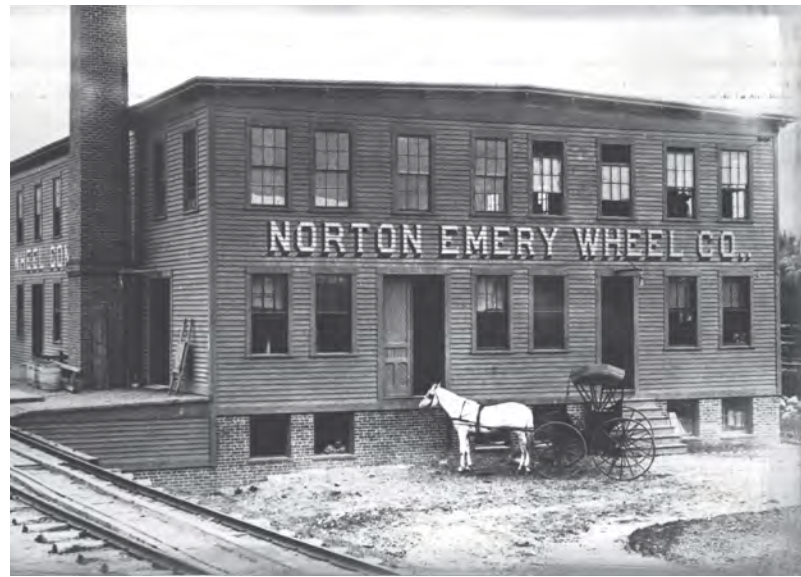
This is a general dust warning and does not cover specific situations. For more information, refer to the SDS dust warning provided with your products, and workpiece.

100 Years of Safety Leadership

The year 2016 marked the 100-year anniversary of the leadership of the former Norton Company in the creation of the first ever safety code for abrasives.

In 1916, following more than a decade of safety research, advocacy, and leadership by the Norton Company (now Norton | Saint-Gobain Abrasives), "The Safety Code for the Use and Care of Abrasive Wheels" was published. This 13-page booklet, containing an unprecedented set of safety device recommendations and procedures, was a spark that changed the entire future of the abrasives industry.

In the 1970s, this code received the ultimate endorsement when selected by OSHA as the basis of new federal regulations concerning abrasive wheel machinery. Today, the ever-evolving "Safety Requirements for the Use, Care and Protection of Abrasive Wheels" (commonly known as the ANSI B7.1 standard) continues to mirror the latest technologies and remains the global authoritative abrasives safety standard.



Breakages/Personal Injury

In the event of on-machine breakage of Norton abrasive products, call your local Norton distributor immediately. Whether involving personal injury or not, the abrasive user should leave the equipment and other evidence undisturbed until a Norton sales representative has been notified and conducts an investigation. Prompt action on the part of abrasive users, distributor, and Norton sales personnel is important to ensure swift determination of the breakage cause and to guard against recurrence.



It is the user's responsibility to refer to and comply with ANSI B7.1 and B7.7 – Contact us for a free copy.



Safety Poster
(Form # 7868-English, 7868-French, 7868-Spanish)

To order this poster for your shop,
<mailto:nortonliterature@saint-gobain.com>

Abrasive Safety References



Safety Information on the Web

Norton website <http://www.nortonabrasives.com/en-us/norton-product-safety>

UAMA (United Abrasives Manufacturers Association) website at <http://www.safety.uama.org>



Safety Video

Watch our videos on: [YouTube.com/NortonAbrasives](https://www.youtube.com/NortonAbrasives)

- Norton Abrasives: Safety, It's The Smart Thing To Do (Safety information for portable grinding and cutting wheels)
- Norton Abrasives: Foundry Safety
- Norton Abrasives: First in Precision Grinding Safety
- Norton Abrasives: Proper Grinding Wheel Mounting
- Norton Abrasives: Railroad Abrasive Safety
- Norton Abrasives: Coated Abrasive Belt and Disc Safety

Safe Operating Practices

Safe operating practices must be part of every grinding wheel user's operation. The greatest efficiency and lowest overall abrasive cost can be realized only if proven care and use techniques become standard practice.

- Be sure to read any safety material/guidelines provided with the abrasive product.
- Always check the wheel for cracks or damage before use.
- Always properly maintain your machine; especially governors on pneumatic machines and linkage on floorstand machines.
- Never use the incorrect air, hydraulic or electric power supply.
- Never mount grinding wheels directly on electric motors.
- Never mount grinding wheels on the wrong size machine for the grinding wheel.
- Before mounting the wheel, use a tachometer to measure the spindle speed.
- Ensure the mounting flanges, backplate or adapter supplied by the machine manufacturer are used and kept in good condition. ANSI Safety Requirement B7.1 provides wheel mounting requirements. Check mounting flanges for equal and correct diameter and use blotters when supplied.
- Always mount, true and dress the wheel in conformance with the guidelines published in the ANSI Safety Requirements B7.1.
- Ensure the correct wheel guard is in place before starting the wheel. Allow the wheel to come up to full operating speed before starting to grind for a minimum of one minute, and stand out of the plane of rotation.
- NEVER use a high speed air sander as a portable grinder.
- NEVER use grinding wheel with a rated speed less than that of the grinder.
- NEVER exceed the maximum operating speed marked on the wheel being used. The following formula may be used to calculate wheel speed:
SFPM = Spindle Speed in RPM x Wheel Dia. in inches x .262
- Avoid dropping or bumping the wheel.
- When not using the wheel, store the wheel in its original packing materials. This protects the wheel from chips and cracking, as well as provides easy identification of the wheel.
- Refer to proper safe storage schematic on page 266.



Pistol Grip Air Sander

A Deadly Equation

Pistol Grip Air Sander + Grinding Wheel = Certain Injury!

- Never use a high-speed air sander as a portable grinder
- Use only sanding discs specifically designed for sanders
- Because the speed of these sanders far exceeds the maximum rated speeds for grinding wheels, a potentially lethal wheel breakage might occur

Dangerous Pairing: Die grinders and Cut-off Wheels

While die grinders and portable cut-off tools may look similar, they are by no means interchangeable. Several crucial differences exist between the two handheld machines.

GUARD

Cut-off wheels must be used on guarded machines for the safety of the operator and bystanders.

SPEED

Cut-off wheels must be used at or below their maximum operating speed, marked clearly on the side of the wheel. Excessive speed can result in breakage and serious personal injury.

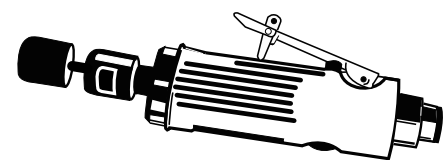
Die grinders often operate above 25,000 rpm and therefore are too fast for abrasive wheels. The speed hazard is increased by the absence of a guard. Portable cut-off tools, however, rotate at speeds compatible with the abrasive wheels for which they are designed. And, their guards prevent use of an oversize wheel.

MOUNTING

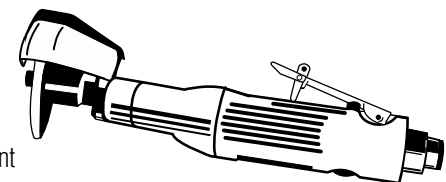
Cut-off wheels must be mounted between proper flanges, as described in the national safety standard for abrasive wheels, ANSI B7.1. Die grinders make use of a collet for mounting

Portable cut-off tools use flanges for mounting, flanges designed according to the ANSI B7.1 safety standard.

Now that you have learned the three crucial differences between die grinders and portable cut-off tools – GUARD, SPEED and MOUNTING – be on watch for the dangerous pairing of cut-off wheels and die grinders, and warn your friends and colleagues of the same.



Die Grinder



Portable Cut-off Tool

Starting a Grinding Wheel

ANSI's Procedure for Starting an Abrasive Wheel

In the past several years wheel breakages and accidents have been reported involving abrasive wheels breaking on start-up. This article is designed to remind users of the proper procedure when starting a machine with a new abrasive wheel mounted on it, or starting a machine after the machine and wheel have been stored for a period of time, or remounting a wheel. ANSI B7.1-2000 requires the following procedure when starting a newly mounted grinding wheel.

9.8 Starting the Wheel (Requirements)

All abrasive wheels shall be run at operating speeds with the safety guard in place or in a protected enclosure for at least one minute before applying work. During this time no one shall stand in front of or in line with the wheel. (See section 4, for safety guard requirements.) This provision shall apply each time one of the following conditions occur: a) a new wheel has been mounted; or b) a used wheel has been remounted.

E 9.8 Starting the Wheel (Explanatory Information)

An abrasive wheel may be damaged in shipment or storage, or the wheel may be subjected to improper, excessive stresses during mounting. Wheels which have been damaged or are under excessive stress, are likely to fracture within the first minute of rotation at operating speed. While this procedure is most important at the time when an abrasive wheel is mounted or remounted, damage may also occur to a wheel during a shut down of the machine on which it is mounted. The user should evaluate the circumstances and length of machine shut down to determine additional times that the operating rule should be followed.

Improper wheel mounting is a major cause of wheel breakages. Always use proper mounting procedures as outlined in ANSI B7.1, machine manufacturer's instructions and those supplied with the abrasive wheel. Be safe, know and follow the rules!

What are the Major Causes of Grinding Wheel Breakages?

- Using a grinding wheel damaged during transportation, storage or as a result of careless or improper handling. Inspect all grinding wheels before mounting them on a machine. **NEVER MOUNT A DAMAGED GRINDING WHEEL.**
- Selecting the wrong grinding wheel for the job. **DON'T GRIND MATERIAL FOR WHICH THE WHEEL IS NOT DESIGNED.**
- Incorrect machine. **NEVER MOUNT A GRINDING WHEEL ON A MACHINE NOT DESIGNED AND GUARDED FOR THAT GRINDING WHEEL.**
- Machine speed higher than the grinding wheel speed. **NEVER OVER-SPEED A GRINDING WHEEL.**
- Poor machine maintenance. **FAILURE TO PROPERLY MAINTAIN A GRINDING MACHINE CAN CAUSE GRINDING WHEEL BREAKAGES RESULTING IN SERIOUS INJURY OR DEATH.**
- The improper mounting of grinding wheels. See ANSI B7.1 and literature provided for proper mounting procedures.
- Operator carelessness. **ALL GRINDING WHEELS CAN BE BROKEN IF NOT USED PROPERLY.**
- Lack of knowledge or training. **IF YOU DO NOT KNOW HOW TO USE A GRINDING WHEEL OR THE GRINDER, GET HELP!**
- Poor wheel balance caused by the failure to turn off coolant before stopping the grinding wheel. Always spin coolant out of a grinding wheel before shutting the operation down.
- Jamming the work into the grinding wheel.
- Force grinding, so that the motor slows noticeably or the work gets hot.
- Grinding on the wrong surface of a grinding wheel, i.e. grinding on the side of a Type 1 straight grinding wheel.



Shelf Life of Grinding Wheels

The best rule of thumb is to have any wheel that is two years old or older re-speed tested and re-inspected to ensure it is fit for use.

Organic-Bonded Abrasive Products

It has always been Norton | Saint-Gobain Abrasives recommendation that resinoid bonded grinding wheels be used within 2 years from the date of manufacture. This recommendation assumes that resinoid bonded grinding wheels have been stored under ideal storage conditions.

It might be true that under ideal storage conditions resinoid bonded grinding wheels can survive without any degradation in strength for well over two years. However, it is always wise to suspect any wheels over two years old and have them re-inspected or re-speed tested to determine if there has been any degradation in strength. If the wheels are stored under less than ideal conditions, they might have a much shorter shelf life depending upon the severity of storage conditions. These same comments also apply to rubber and shellac bonded grinding wheels.

See “Proper Storage of Grinding Wheels” schematic on page 64.

Vitrified-Bonded Abrasive Products

The shelf life of these product is less influenced by humidity and adverse storage conditions as compared to organic products (resinoid, rubber, and shellac), but even vitrified grinding wheels do not have an infinite shelf life.

The best procedure and the best rule of thumb is to have any wheel that is two years old or older re-speed tested and re-inspected to ensure it is fit for use. The procedure for having this done and the charges will be explained by our Customer Service Department. The cost of shipping as well as the cost of re-inspection is the customer's responsibility. Also, any wheels rejected or otherwise lost in the re-inspection process will also be the responsibility of the customer.

Keep in mind, however, that this procedure is good to verify the reliability of a product but must not be performed until you are ready to consume the wheel. If wheels are sent back after the two-year time frame for re-inspection and re-testing, and then put back on the shelf, there is no telling how long they will be fit for use after that last inspection. Therefore, these wheels must be consumed as soon as is practical.



How to Perform a Ring Test on a Grinding Wheel

One method of grinding wheel inspection is called ring testing. OSHA, ANSI and the grinding wheel manufacturers require this method of grinding wheel inspection. It must be performed BEFORE the wheel is mounted on a grinding machine. Ring testing depends on the damping characteristics of a cracked wheel to alter the sound emitted when the wheel is tapped lightly. It is subject to interpretation by the inspector and is primarily applicable to vitrified bonded wheels. To perform the ring test, wheels should be tapped gently with a light nonmetallic implement, such as the handle of a screw driver for light wheels, or a wooden mallet for heavier wheels.

- Tap wheels about 45 degrees each side of the vertical line and about 1" or 2" from the periphery. Rotate the wheel 45 degrees and repeat the test.
- Large and thick wheels may be given the ring test by striking the wheel on the periphery rather than the side of the wheel.
- A sound and undamaged wheel will give a clear tone. If cracked, there will be a dead sound and not a clear ring and the wheel should not be used.
- Wheels must be dry and free of sawdust when applying the ring test, otherwise the sound may be deadened. The ring test is not applicable to certain wheels because of their size, shape or composition.

Proper Grinding Wheel Operating Speeds and Safety!

As abrasive wheel producers have known for many years, most grinding wheel breakages and injuries are caused by one major oversight. That oversight is operating a grinding wheel in an over-speed condition. A grinding wheel should never be operated at speeds greater than the wheel's rated speed.

- Never use a grinding wheel with a rated speed less than that of the grinder
- Never mount grinding wheels on sanders (Pistol Grip Air Sanders)
- Never mount grinding wheels directly on electric motors
- Never mount grinding wheels on the wrong size machine for the grinding wheel
- Always properly maintain your machine: especially governors on pneumatic machines and linkage on floorstand machines
- Never use the incorrect air, hydraulic or electric power supply
- Never use the improper speed setting on a machine

What you might not be cognizant of is that slight over-speed can cause damage to a wheel. If an operator continues to use this damaged wheel, it might break. In a reinforced wheel for example, cracks might form, be forced open and jam or catch the wheel on the workpiece resulting in a wheel breakage. The use of a 9" Type 27 Wheel on a 7" angle grinder is very dangerous! Normal stresses that occur during grinding along

with the additional stress caused by over-speed are additive. The act of operating a wheel in a slight over-speed condition is very dangerous. We must understand and communicate this danger.

One of the major forces at work on a grinding wheel is called "centrifugal force." To demonstrate this force take a piece of string and tie a small weight to one end. Hold the other end of the string so the weight will travel in a circle. Rotate the weight and you will feel a pull on the string. The weight tries to fly off in a straight line, but the string holds it and compels it to travel in a circle. This pull on the string is called "centrifugal force." Warning: If you attempt this experiment take all the proper precautions related to the object used to avoid injury to yourself or others.

If you swing the weight at a speed of 50 revolutions per minute (RPM) and could measure the pull on the string at this speed, then increase the swing to 100 revolutions per minute and again measure the pull, you would find the pull was not merely two times greater, but was actually four times greater than it was at one half the speed. Therefore, the force increases exponentially with the speed or RPM.

Centrifugal force increases in proportion to the square of the velocity. Think again of the weight and the string. We find that the square of 50 is 2,500, (50 x 50 = 2,500); and the square of 100 is 10,000, (100 x 100 = 10,000). As 10,000 is four times as great as 2,500, so is the pull on the string at 100 revolutions per minute four times as great as it was at 50 revolutions per minute.

Centrifugal force applies to grinding wheels in the same manner as the weight to the string. Increasing the RPM or speed beyond the maximum safe operating speed (MOS) might be more dangerous than might be expected. Placing and operating a 9" Type 27 grinding wheel with a maximum operating speed of 6,600 RPM on a 5" right angle grinder with a rated speed of 10,000 RPM represents an over-speed of approximately 1.515 times the wheel's designated speed. The resulting rotational stress caused by the centrifugal force would be approximately 2.3 times greater than the maximum allowed. Add this additional stress to the stresses that occur during normal grinding and even the strongest wheel might break.

In short, NEVER over-speed a grinding wheel. Always compare the speed marked on the wheel or package to make sure the machine's speed is at, or below, the speed or MOS of the grinding wheel. Speed can kill. NEVER over-speed a grinding wheel.





Conversion Table – Wheel Speeds

REVOLUTIONS PER MINUTE FOR VARIOUS DIAMETERS OF GRINDING WHEELS TO GIVE SURFACE SPEED IN FEET PER MINUTE AS INDICATED (FOR WHEEL MARKING PURPOSES THE CALCULATED RPM FIGURES LISTED BELOW ARE ROUNDED OFF TO THE NEXT 5)

Surface Speed in Feet Per Minute (SFPM)

Diameter of Wheel in Inches	Revolutions Per Minute (RPM)															
	6,500	7,000	7,500	8,000	8,500	9,000	9,500	10,000	12,000	12,500	14,200	16,000	16,500	17,000	19,685	20,000
1	24,828	26,737	28,647	30,558	32,467	34,377	36,287	38,196	45,836	47,745	54,240	61,116	63,025	64,935	75,190	76,395
2	12,414	13,368	14,328	15,278	16,238	17,188	18,143	19,098	22,918	23,875	27,120	30,558	31,510	32,465	37,595	38,195
3	8,276	8,913	9,549	10,186	10,822	11,459	12,096	12,732	15,278	15,915	18,080	20,372	21,010	21,645	25,065	25,465
4	6,207	6,685	7,162	7,640	8,116	8,595	9,072	9,549	11,459	11,940	13,560	15,278	15,755	16,235	18,800	19,100
5	4,966	5,348	5,730	6,112	6,494	6,876	7,258	7,640	9,168	9,550	10,850	12,224	12,605	12,985	15,040	15,280
6	4,138	4,456	4,775	5,092	5,411	5,729	6,048	6,366	7,639	7,960	9,040	10,186	10,505	10,820	12,530	12,730
7	3,547	3,820	4,092	4,366	4,638	4,911	5,183	5,456	6,548	6,820	7,750	8,732	9,005	9,275	10,740	10,915
8	3,103	3,342	3,580	3,820	4,058	4,297	4,535	4,775	5,729	5,970	6,780	7,640	7,880	8,115	9,400	9,550
9	2,758	2,970	3,182	3,396	3,606	3,820	4,032	4,244	5,092	5,305	6,030	6,792	7,000	7,215	8,355	8,490
10	2,483	2,674	2,865	3,056	3,247	3,438	3,629	3,820	4,584	4,775	5,425	6,112	6,300	6,495	7,520	7,640
12	2,069	2,228	2,386	2,546	2,705	2,864	3,023	3,183	3,820	3,980	4,520	5,092	5,250	5,410	6,265	6,365
14	1,773	1,910	2,046	2,182	2,319	2,455	2,592	2,728	3,274	3,410	3,875	4,366	4,500	4,640	5,370	5,455
16	1,562	1,672	1,791	1,910	2,029	2,149	2,268	2,387	2,865	2,985	3,390	3,820	3,940	4,060	4,700	4,775
18	1,379	1,485	1,591	1,698	1,803	1,910	2,016	2,122	2,546	2,655	3,015	3,396	3,500	3,605	4,175	4,245
20	1,241	1,337	1,432	1,528	1,623	1,719	1,814	1,910	2,292	2,390	2,715	3,056	3,150	3,245	3,760	3,820
22	1,128	1,215	1,302	1,388	1,476	1,562	1,649	1,736	2,084	2,170	2,465	2,776	2,865	2,950	3,420	3,470
24	1,034	1,115	1,194	1,274	1,353	1,433	1,512	1,591	1,910	1,990	2,260	2,546	2,625	2,705	3,135	3,185
26	955	1,028	1,101	1,176	1,248	1,322	1,395	1,468	1,762	1,840	2,090	2,352	2,425	2,495	2,890	2,940
28	887	955	1,023	1,092	1,159	1,228	1,296	1,364	1,637	1,705	1,940	2,182	2,250	2,320	2,685	2,730
30	828	891	955	1,018	1,082	1,146	1,210	1,274	1,528	1,595	1,810	2,056	2,100	2,165	2,505	2,545
32	776	836	895	954	1,014	1,074	1,134	1,194	1,432	1,495	1,695	1,910	1,970	2,030	2,350	2,385
34	730	786	843	898	955	1,011	1,067	1,124	1,348	1,405	1,595	1,796	1,855	1,910	2,210	2,245
36	690	742	795	848	902	954	1,007	1,061	1,273	1,330	1,510	1,698	1,750	1,805	2,090	2,120
38	653	704	754	804	854	904	955	1,006	1,206	1,260	1,430	1,608	1,660	1,710	1,980	2,010
40	620	669	716	764	812	860	908	956	1,146	1,195	1,355	1,528	1,575	1,625	1,880	1,910
42	591	636	682	732	775	818	863	908	1,090	1,140	1,295	1,464	1,500	1,545	1,790	1,820

For intermediate diameters not listed use the formula listed in Section 1.2.10 of ANSI B7.1

SFPM = .262 x wheel diameter in inches x RPM.

To convert meters per second (m/s) to SFPM: m/s x 196.85 = SFPM

To convert SFPM to m/s: SFPM/196.85 = m/s.

To convert RPM to SFPM: Wheel Diameter x RPM x 0.262 = SFPM

Product Warranty

WARRANTY – Norton | Saint-Gobain warrants the products in this catalog to be free from defects in material or workmanship for a period of one year from the date of purchase. Norton | Saint-Gobain's sole obligation under this warranty shall be to repair or replace, at Norton | Saint-Gobain's option, any product which is non-conforming provided any such product failure was not caused by a subsequent modification of the product, misuse or a failure to follow any applicable instructions for the product.

EXCEPT FOR THE FOREGOING, NORTON | SAINT-GOBAIN EXPRESSLY DISCLAIMS ALL OTHER GUARANTIES AND/OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Liability Limitation

NORTON | SAINT-GOBAIN'S LIABILITY FOR ANY LOSS OR DAMAGE ARISING OUT OF OR RESULTING FROM THE USE OF THE PRODUCT SHALL NOT EXCEED THE PURCHASE PRICE THEREOF, REGARDLESS OF WHETHER SUCH LIABILITY ARISES IN CONTRACT, TORT (INCLUDING WITHOUT LIMITATION NEGLIGENCE OR STRICT LIABILITY), OR OTHERWISE, AND IN NO EVENT SHALL NORTON | SAINT-GOBAIN BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND. NO REPRESENTATIVE OF NORTON | SAINT-GOBAIN, NOR ANY OF NORTON | SAINT-GOBAIN'S DISTRIBUTORS OR DEALERS, IS AUTHORIZED TO MODIFY THIS WARRANTY OR ISSUE ANY WARRANTY REGARDING THE PRODUCTS IN THIS CATALOG.

Product Quality Complaints

All product quality complaints should be submitted to your local Norton Distributor.

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A275 Original Performance™	EZ Choice®	NorBide®	Reshaping the World of Precision Grinding™
Abrasive Connection Expressx®	E-Z Flex®	NorGrip®	Reshaping Your World®
Abrasotex™	FabCut™	NorKut™	RightCut®
Adalox®	Fast Cut™	NorLok™	SAABA™
Alundum®	FastTrack™	NorPor®	Sand-O-Flex™
Aero-Jet™	FlexDrum™	Norton®	SandWet™
Amplex®	FlexEdge™	Norton Clipper™	Screen-Bak®
AVOS®	Foundry X™	Norton Design® (Parallelogram)	ShurStik™
Aztec®	Free Cut™	Norton Design® (Triple Stripe Design)	Silver Eagle®
Bear-Tex®	Furioso™	Norton Ice™	SoftTouch®
Because Right Choices Matter™	Gemini®	Norton SG®	Speed-Change™
Black Ice®	G-Force™	NorZon®	Speed-Grip®
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Blue-Bak™	India®	Onyx™	Targa®
Blue-Core™	JobPack™	Pacester™	The Absolute Force™
BlueFire®	Lightning®	Paradigm®	The See-Thru System™
BlueFire 20X™	Liquid Ice®	Plyweld®	Thin Flex™
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Clipper®	Multi-Air Cyclonic®	QuadroFlex™	WoodSand™
Crystolon®	Multi-Air® Plus™	Quantum™	ZF®
DiaLast™	Multi-Oilstone®	Rail Cut™	ZS®
Dry Ice®	MultiSand™	Rapid Blend®	ZX®
Duo®	The Muscle Behind The Machine®	Rapid Cut™	and others
Duo Evo™	Nanozyte™	Rapid Finish®	
Durite®	Neon®	Rapid Prep™	
Edger™	NEX™	Rapid Strip®	
E-Form™	No-Fil®	Red Heat®	

GET ACCESS TO **THE INDUSTRY'S BEST SELECTION** OF ABRASIVE SOLUTIONS!

Inside Sales

For information, contact our inside sales team:

Phone: **800-962-9379** Fax: **508-795-5950**

- Product application information/technical assistance
- Competitive product conversions
- Product availability, pricing, and delivery information
- Request for on-site “no-risk” product test

NO-RISK TEST

Norton | Saint-Gobain is so confident of the superior performance of our abrasive products, as recommended for specific applications, that we invite in-plant tests against any other brand of abrasive product on the market.

1. The test will be conducted in the user's own plant, on their own machines, using their own workpieces
2. Even if the user purchases only a minimum quantity of Norton abrasive products, the user will receive the same quantity discount as would apply to their normal production orders
3. If the Norton product tested proves completely unsatisfactory, the user will receive a full refund
4. If the Norton product tested performs at a lower level than the product presently in production, the user will receive an adjustment to make up the difference in performance
5. The user is the final judge of performance!

Customer Service

To place an order, contact our customer service support center with:

- Customer number and contact name
- Any special shipping needs
- Complete product information:
 - » 11-digit Part Number
 - » Product description
 - » Quantity and unit of measure
 - » Price by unit of measure

To ensure minimal errors and faster turnaround, using electronic media is preferred. For assistance with www.abrasiveconnection.com or EDI setup, contact us at:

Email: abrasive.connection@saint-gobain.com

Phone: 888-383-2236

Email: nacustomerservice@saint-gobain.com

U.S. Phone: **800-551-4413** Fax: **800-551-4416**

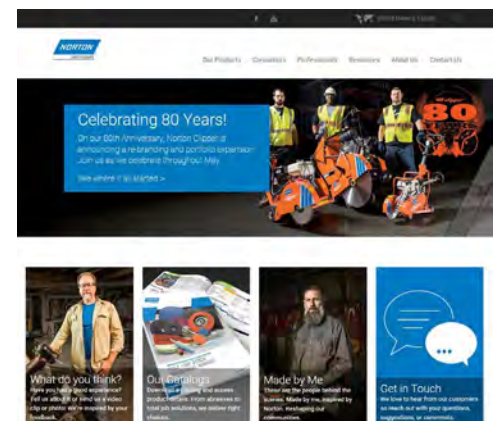
CDN. Phone: **800-263-6565** Fax: **800-561-9490**



Online

This printed catalog is a great starting resource for Norton and Merit product selection. Our website is the ideal resource for a more comprehensive outline of product, safety, and application information. It is continually updated with all our most current information and offers more electronic queries for deeper detail, at a click of a button.

www.nortonabrasives.com



NORTON WELDING & METAL FAB ABRASIVE PRODUCTS



RESHAPING THE WORLD OF WELDING AND METAL FABRICATION MARKETS

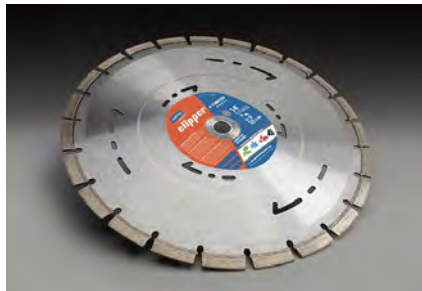
For 130+ years, Norton and Merit products have delivered industry-leading abrasive solutions to efficiently remove unwanted stock, help you achieve quality finishes, and enhance production capabilities. The Norton and Merit brands of products provide the highest productivity in the industry while reducing the overall total cost of doing businesses.

Call, click or visit us online to learn how.



Work Smarter Without Working Harder

Maximum operator comfort – less cutting vibration means reduced hand fatigue. Sharper wheel for fastest cutting action; highest metal removal rate, less pressure, and longest life – for highest productivity.



Hit the Pavement Confidently

Our new Norton Clipper brand of diamond blades, tools, and light machines for construction and cutting materials is Redefining Job Site Muscle – Rugged. Reliable. Affordable.



Unleash the Controlled Heat

Achieve the highest productivity on mild carbon steel, stainless, and ferrous metals under the toughest conditions: from stock removal to quality finish.



Specialties Just Got Very Special

Find every abrasive and shape – from our versatile Merit line to the new Norton Best - Better - Good line of specialties for aerospace and other precision applications.



Eliminate the Guesswork

Get the perfect combination of life, cut, and smear-free finish, with our color-coded (by application and abrasive type) non-woven Rapid Finish General Purpose convolute wheels.

BEST
Highest Productivity Lowest Total Cost

BETTER
Excellent Blend of Performance and Price

GOOD
Consistent Performance – Low Initial Price

www.facebook.com/NortonIndustrial | www.youtube.com/NortonIndustrial | www.nortonabrasives.com

USA CUSTOMER SERVICE:

Toll Free Phone: 1 (800) 551-4413
Toll Free Fax: 1 (800) 551-4416

CANADA CUSTOMER SERVICE:

Toll Free Phone: 1 (800) 263-6565
Toll Free Fax: 1 (800) 561-9490

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NO-RISK TEST

