



“Professional Grade Sandpaper”

Product Catalog



[Go To "Coated" Index](#)

[Go To "Non-Woven" Index](#)

[Terms / Conditions](#)





Quick-Locks

Standard 2-Ply Backing (Blue)

NEW! AO EXTREME w/HD Backing (Red)

Also available in Vype "P" fastener



Surf. Cond. Products



"Professional Grade Sandpaper"

Resin Fiber Discs



Thank you for considering Preferred Abrasives, Inc.

We realize that you have numerous places to shop when looking for coated or non-woven abrasives. Whether you are looking for the newest high performance material, or an inexpensive product for an application that doesn't justify a premium product, you can count on us to deliver a consistent, reliable product.

Our part number system is "Material Specific", ensuring that you will always receive the same material, order after order! Most of our items can be custom manufactured from various types & brands of material. The next time you need abrasives, we hope you will let our knowledgeable staff help to reduce your finishing costs.

Sincerely,

Thomas R. Gulker
President

Flap Discs



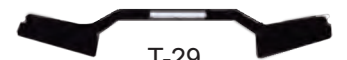
Standard Density



Hi Density



T-27



T-29



Adobe PDF offers convenient "Search Methods"

Are you using the convenient features of our PDF catalog?

*** Did you know our Table of Contents includes convenient links?**

While viewing the Table of Contents, click on any page number to view it. If you would like to return to the index, just click the "Return to Index" button located at the top of each page.

*** Search by part number or key words**

To begin your search: To open the search box, hold down the "Ctrl" & "F" key at the same time.

1) **"Ctrl & F" =** Find.....

2) Enter the part number or description & then press the "enter" key. Find.....

The page will be displayed & the part number will be highlighted for easy location.

The "search" feature will check the entire catalog for every reference of the part number or key word.

Note... proper capitalization is not required.

NEW PRODUCTS

FAS TRIM
Flap Discs [Pg. 23](#)



Green Piranha
Cut-Off Wheels [Pg. 39](#)



"PC" Economy Blue Zirc
PSA Discs [Pg. 29](#)



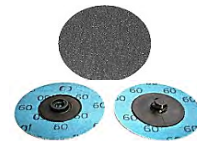
Blue Film
Discs [Pg. 28](#)



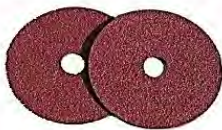
Super Saver
"PC" Belts [Pg. 8](#)



Silicon Carbide
Quick-Locks [Pg. 20](#)



Ceramic Fiber Discs
(carbon steel) [Pg. 21](#)



Cotton Fiber
Quick-Locks [Pg. 51](#)



"PC" Economy
Conv. Whls. [Pg. 49](#)



Cotton Fiber "MX"
Mounted Pts. [Pg. 52](#)



Cotton Fiber
Smoothie Wheels [Pg. 51](#)









Surface Prep
Quick-Locks [Pg. 45](#)



Table of Contents


COATED ABRASIVE PRODUCTS

		BELTS	PAGE
		Belt Material Descriptions	6
		Super Saver Belts	8
		Narrow Belts 1/4" - 12"	9
		Wide Belts 13" - 52"	16
		Pump Sleeves	8
		Belt Cleaning Sticks	8
		QUICK-LOCK DISCS	PAGE
		Ceramic Plus (Firestorm)	18
		Zirc Plus	18
		AO	18
		AO Extreme (Red Back)	19
		Compact Grain	20
		Silicon Carbide	20
		Trim-Kut Discs	20
		RESIN FIBER DISCS	PAGE
		Ceramic	21
		Zirc	21
		AO	22
		FLAP DISCS	PAGE
		Trimmable Flap Discs	23
		Ceramic (Firestorm)	23
		Zirc Standard Density	24
		Zirc Hi-Density	24
		Mini Flap Discs	24
		FLAP WHEELS	PAGE
		Mounted	25
		Spin-On	25
		Mini Flap Wheels	26
		Bore Polishers	26
		Unmounted	27
		DISCS: CLOTH-PAPER-FILM	PAGE
		Mini Gold / Blue H & L	27
		Gold Rolls / Blue Film	28
		PSA - Zirc Cloth	29
		PSA - AO Cloth	30

		SPECIALTIES	PAGE
		Cartridge Rolls	31
		Full Taper Rolls	32
		Flap Bands / Slotted Drums	38
		No-Lap Spiral Bands	37
		Cross Pads	33
		Square Pads	34
		Spin-On Overlap Discs	34
		SHEETS AND ROLLS	PAGE
		Shop Rolls	35
		Sheets (9 x 11)	36
		Other Cloth Rolls	36
		BONDED / WHEELS	PAGE
		Mounted Points (Vitrified)	40
		Mounted Points ("MX")	52
		Cut-Off Whls: A/O & Z/A	39
		Cut-Off Whls: Green Piranha	39
		Grind. Whls: Green Piranha	38
		Cotton Fiber "MX" Whls.	51
		BACK-UP PADS	PAGE
		Quick-Lock Holders	19
		PSA Disc Holders	29
		Mini H&L Disc Holders	27
		DA Disc Holders	29
		Fiber Disc Back-Up Pads	22
		MANDRELS / MISC	PAGE
		Cartridge Roll Mandrels	32
		Bore Polisher Mandrels	26
		Spin-On FW Adapters	25
		Eyelet Mandrels	33
		Solid Rubber Drums	37
		Cut-Off Wheel Mandrels	39
		Arbor Hole Bushings	27
		Sanding Sponges	53
		Felt Polishing Quick-Locks	45
		Grease / Cleaning Sticks	8

Table of Contents

FLEX-N-FINISH® NON-WOVEN PRODUCTS

QUICK-LOCK DISCS		PAGE
	Surface Cond. Discs	43
	Finishing HD & HS	45
	Surface Prep Discs	45
	Unitized Discs	45
	Cotton Fiber "MX" Discs	51
	Flex-N-Strip Discs	53
Felt Polishing Discs	45	
SURFACE COND. ITEMS		PAGE
	Quick-Lock Discs	43
	H&L Discs	44
	Bands	44
	Belts	42
	Stars	48
	Flap Discs	43
CONVOLUTE WHEELS		PAGE
	Convolute Deburring Whls.	49
	Metal Finish Wheels	49
	Multi-Finish Wheels	49
MTD / UNMTD WHEELS		PAGE
	Disc Wheels	47
	Flap Wheels	47
	Interleaf Wheels	47
	Unmtd. Flap Brushes	47

ARBOR HOLE DISCS		PAGE
	Finishing Discs: HD & HS	46
	Flex-N-Strip	53
	Cross Buffs	48
UNITIZED / COTTON FIBER		PAGE
	Unitized Wheels	50
	Unitized Quick-Locks	45
	Unitized Type 27 Discs	48
	Unitized Mtd. Points	52
	Cotton Fiber Mtd. Points	52
	Cotton Fiber "MX" Wheels.	51
FLEX-N-STRIP		PAGE
	Discs with Arbor Hole	53
	Type 27 Wheels	53
	Type R Quick-Locks	53
HAND PADS & ROLLS		PAGE
	Hand Pads	46
	Rolls	46
HARDWARE		PAGE
	H&L Surf. Cond. Holders	44
	Quick-Lock Holders	19
	Reducer Bushings	50
	Flex-N-Strip Arbor	53
	Unitized Whl. Mandrels	50

Terms / Conditions: See inside back cover

Cross Reference Chart

Listed by Grain Type, from the most flexible to the stiffest.

ALUMINUM OXIDE CLOTH									
Wt.	Preferred	Backing	Grits	3M	Norton	Hermes	VSM	Kling.	Deer
J-Flex	K35SF Open Coat	Poly/Cotton	80-220	-		RB306JF	KK504F KK505J KK524F,J	LS319JF	JW342
J-Flex	KA537 (Grind. Aid)	Egyp.Cott.	60-600	303D	R296	RB406J	-	LS312J	KA537
J	KAF, JA165	Egyp.Cott.	60-500	201E	R201	RB317J	KK511F,J	LS309J	JA512
J	TAJ		600,800		R245	RB346J			
J,X	Sheets/Shop Rolls	Cotton	36-500	314D	K225,K227	RB232J	KK14F	KL361	-
J	Emery Cloth	Cotton	C,M,F	011K	K622	-	-	KL371	-
J	Crocus Cloth	Cotton	Crocus	-	K624	-	-	-	-
X	XA167 XA911, R145	Poly/Cotton	24-400	241D, E 248D	R228 R249,R283	RB346X	KK711X	CS310X CS412X	XA911
X	K35X Open Coat	Poly/Cotton	24-320	240D	R215,R232	RB316XOP	KK504X	CS311X	XW341
Y	R192 (Grind. Aid) Dry Only	Poly	36-600					CS410Y	
Y	P355 Wet or Dry	Poly	24-120	261F 361F	R247 R249	RB376TY	KK711Y	CS412Y CS341Y	PA631 YA531
Y	W25 Open Coat Wet or Dry	Poly	24-320	270D	R215	RB316XOP	KK524X KK524Y	CS311Y CS341Y CS413Y	PA343
ZIRCONIA ALUMINA CLOTH									
Wt.	Preferred	Backing	Grits	3M	Norton	Hermes	VSM	Kling.	Deer
X	XZ677, AZX	Poly/Cotton	36-180				ZK713T	CS411X	XZ677
Y	R205 Wet or Dry PZ628 Wet or Dry	Poly	24-120		R821 R823	RB484TY RB488Y	ZK713X KK715X KK716Y	CS411Y CS408Y CS414Y	PZ628
Y	R203 (Grind. Aid) Dry Only PZ528 (Grind. Aid) Dry Only	Poly	24-120	577F 777F	R801 R823,R824	RB486X,Y RB426X	ZK744X KK815Y	CS409Y	PZ528
CERAMIC ALUMINA CLOTH									
Wt.	Preferred	Backing	Grits	3M	Norton	Hermes	VSM	Kling.	Deer
Y	SK855X / XK870 (Grinding Aid) Dry Only	Poly	24-120	777F,963G 967F,977F	R980	CB441Z CB440Y	SK840X SK855X	CS612YY CS610YY	PS999 PS992
X, Y	S945 Open Coat	Poly	36-120	970DZ	R955				
SILICON CARBIDE CLOTH									
Wt.	Preferred	Backing	Grits	3M	Norton	Hermes	VSM	Kling.	Deer
Y	S181 Wet or Dry	Poly	24-600	441D	R422	RB318X	CK721X	CS321X	PC221
RESIN FIBER									
Wt.	Preferred	Backing	Grits	3M	Norton	Hermes	VSM	Kling.	Deer
FIBER	AO Premium (A-Type) AO "PC" (C-Type)	Fiber	16-120	281C 381C	F226	RB314X	KF708	CS561	VA113 VA632
FIBER	ZIRC Premium (Zee Type) ZIRC PC	Fiber	24-80	501C	F826	RB414	ZF713	CS565	VZ133
FIBER	CERAMIC "Firestorm" CERAMIC "CS"	Fiber	24-80	785C 983,985C 988C	F980 F968 F986	CB444X	SF840 SF750	- -	- -

Cross Reference Chart - Cont'd.

Listed by Grain Type, from the most flexible to the stiffest.

PAPER / FILM									
Wt.	Preferred	Backing	Grits	3M	Norton	Hermes	VSM	Kling.	Deer
FILM	AO Blue Film	FILM	60-2000	366L	Q130	-	-	-	SA331
A	AO Finishing Paper	Paper	80-280	210N	A212	PHF	KP31	PL31	-
C/D	AO Cabinet Paper	Paper	36-150	230N 240N	A211 A213	HCAB-LL	KP31	PL31	-
A/C	S/C Wet or Dry Paper	Paper	60-3000	413,414Q 431Q	T421,425 T461	WS18B WS18C	CP918	PS11	-
B/C	AO Gold	Paper	60-600	216U 236U	A290	HCAB	MP10 MPG	PS33	CA331
E	AO Gold	Paper	36-80	246U	H290	-	KP510E KP701E	PS23	
F	AO F-wt. Anti Static OP B-317	Paper	40-220	261UZ 265UZ	H248 H258	BW112 BW114	KP520F	PS20 PS23	-
FLOOR SANDING PRODUCTS									
Wt.	Preferred	Backing	Grits	3M	Norton	Hermes	VSM	Kling.	Deer
E	Floor Paper	Paper	24-120	-	H425	-	-	-	-
Combo	Floor Paper	Combo	12,16,20	460U	S513	-	CK725D	-	-
Screen	Sandscreen	Mesh	60-320	483W	Q421	RB375Y	-	-	-
X, Y	S945 Open Coat Green Ceramic	Poly	36-120	970DZ	R955				

Abrasive Grain Types

Ceramic abrasives are self-sharpening. Due to their microcrystalline structure, small particles break away during use, allowing them to maintain a very high level of stock removal. They represent the latest innovation in grain technology. **They are the ultimate for life & stock removal.** They provide an aggressive cut under medium or heavy pressure. Used primarily on metal applications.



Zirconia Alumina abrasives, commonly referred to as Zirc or Zirconium, are ideal for coarse to medium grit applications on metal. **They work best for heavy stock removal.** **Heavy pressure** is necessary to fracture the grain & allow it to self-sharpen. Do not use for light pressure applications.

Aluminum Oxide abrasives are the **most common & least expensive.** Generally used for grinding metal and wood. Can be used with light to heavy pressure.

Silicon Carbide abrasives offer a high initial cut rate. Popular in various aerospace applications - especially on titanium. Also good for sanding glass, ceramics, plastics, paints, rubber, wood & non-ferrous applications.

Compact Grain abrasives are comprised of "large clusters of small grains". They appear to be "very coarse", IE a 320 grit may appear as coarse as a 36 grit conventional grain. They work best when they are "dressed" prior to use. They will leave a very smooth & consistent finish throughout their long life cycle. As each granule wears, more small grains are exposed ensuring long life and consistent finish. **Used primarily on metal applications that require fine grit finishes.**

Material Descriptions

CERAMIC CLOTH

CA/Y PLUS (GRINDING AID)	SK855X, XK870	Grit range 24 - 120	Closed Coat
"Firestorm" Ceramic, Heavy X/Y-wt. Poly: High performance product with a grinding aid, good for moderate to heavy pressure applications. Best for stainless steel, Inconel, titanium & high grade aluminum. Dry use only. Very durable. Good for narrow & wide belts.			
PREMIUM WOOD	S945	Grit range 36, 60, 80, 100, 120	Open Coat
High performance product designed specifically for wood. 36 and 60 grit are on a Y-wt. backing, the 80, 100 and 120 are on a heavy X-wt. backing. Very durable. Good for narrow & wide belts.			

ZIRC CLOTH

ZAY PLUS (GRINDING AID)	R203	Grit range 24 - 120	Closed Coat
Zirconia Alumina, Y-wt. Poly: <u>Considered by many to be the best of all Zirconia Products! Our most popular Zirc product.</u> Similar to R205 with the added benefit of dual grinding aids. Requires heavy pressure. Very cool cutting & long life. Great for stainless steel, carbon steel & aluminum. Dry use only. Very durable. Good for narrow & wide belts.			
STANDARD	PZ628, R205	Grit range 24 - 120	Closed Coat
Zirconia Alumina, Y-wt. Poly: Great for most materials. Requires heavy pressure. Can be used wet or dry. Very durable. Good for narrow & wide belts.			
ZAX ECONOMY	XZ677, AZX	Grit range 36 - 120, 180	Closed Coat
Zirconia Alumina, X-wt. 65/35 Poly/Cotton: Our economy grade Zirc products. Good for medium pressure applications that don't require the durability of a full polyester backing. Dry use only. Primarily used for narrow belts.			

A/O CLOTH

AO/J PREMIUM	KAF	Grit range 60 - 400 (TAJ 600, 800)	Closed Coat
Aluminum oxide, J-wt. 100% Egyptian Cotton: A highly flexible product for use on most metal applications, also good on hard woods			
PLUS (GRINDING AID)	KA537	Grit range 60 - 400	Closed Coat
Blue Fired Aluminum oxide, J-Flex 100% Egyptian Cotton: A highly flexible product with a grinding aid. Great on stainless steel & other highly alloyed materials.			
"PC" (Preferred's Econ. Choice)	JA165	Grit range 60 - 400	Closed Coat
Aluminum oxide, J-wt. 65/35 Poly/Cotton: A flexible product for use on aluminum, die-cast, carbon steel and other metal applications.			
AO/X STANDARD	XA911, R145	Grit range 24 - 400	Closed Coat
Aluminum oxide, X-wt. 65/35 Poly/Cotton: The backing, a Polyester/Cotton blend is very durable. <u>This is our most popular X-wt. product, used for narrow & wide belts.</u> Good general-purpose material for most metal applications.			
"PC" (Preferred's Econ. Choice)	XA167	Grit range 24 - 400	Closed Coat
Aluminum oxide, X-wt. 65/35 Poly/Cotton: The backing, a Polyester/Cotton blend is very durable. <u>Good initial price point.</u> Good general-purpose material for most metal applications. Good for narrow & wide belts.			
OPEN COAT	K35	Grit range 24 - 320	Open Coat
Aluminum oxide, X-wt. Cotton: Good general-purpose material for wood applications. Good for portable belts, edge sanders and stroke sanders. Dry use only. Not as durable as W-25 but is less expensive.			

Material Descriptions – Cont'd.

A/O CLOTH –Cont'd.

AO/Y PREMIUM POLY	P355, YA531	Grit range 24 - 120	Closed Coat
Aluminum oxide, Y-wt. Poly: This heavy duty, long life product is great for foundry applications: aluminum, carbon steel and stainless steel. Can be used wet or dry. Great edge-wear resistance. Good for narrow & wide belts.			
PLUS (GRINDING AID)	R192	Grit range 24 - 600	Closed Coat
Aluminum oxide, X/Y wt. 65-35 Poly/Cotton: (Y-wt. for 120 grit & coarser. X-wt. for 150 grit & finer.) Includes an active filler grinding aid to help reduce heat. For high tensile steel, stainless steel, titanium & other heat sensitive material. Dry use only. Good for narrow & wide belts.			
OPEN COAT WASHABLE	W25	Grit range 24 - 320	Open Coat
Aluminum oxide, Y-wt. Poly: Used primarily on wood, this product is the Original "Washable Belt" (can be power washed to remove clogged wood particles.). Very popular for flat sanding. Very durable. Can be used wet or dry. Good for narrow & wide belts.			

S/C CLOTH

SC/Y STANDARD W/P	S181, PC221	Grit range 24 - 600	Closed Coat
Silicon Carbide, Y-wt. Poly: For wet or dry sanding of titanium, non-ferrous metal, glass, cement, ceramic, plastic & rubber. Good for narrow & wide belts.			

RESIN FIBER DISCS

CERAMIC

"FIRESTORM"	Grit range 24 - 120	Closed Coat
This high performance disc provides the ultimate performance on stainless steel and many other hard metals, and aluminum. They provide the fastest cut rate & longest life. The grinding aid prevents heat build-up and reduces loading.		
"CS" (Carbon Steel)	Grit range 24 – 80	Closed Coat
These Ceramic Alumina discs provide great performance on carbon steel, stainless steel and many other hard metals. They provide a fast cut rate & long life.		

ZIRC

PREMIUM (Zee Type)	Grit range 16 - 120	Closed Coat
Our premium ZA discs feature a heavy fiber backing and a fast cutting, self-sharpening grain with an improved resin system for better grain retention. The advanced bonding formulation promotes cool grinding action.		
"PC" (Preferred's Econ. Choice)	Grit range 16 – 80	Closed Coat
Our general purpose ZA discs provide the right combination of reliable quality with low price. Zirc is the better choice for aggressive grinding on most materials		

AO

PREMIUM (A Type)	Grit range 16 - 120	Closed Coat
Our premium AO disc features a heavy fiber backing and a premium, fast cutting grain. The advanced bonding formulation promotes cool grinding action, extending disc life.		
"PC" (C Type)	Grit range 16 - 120	Closed Coat
Our AO "PC" disc features a heavy fiber backing and aluminum oxide grain. The most economical disc for general purpose grinding. Works on most metals.		

Super Saver Cloth Belts

AO/X "PC" (XA167)

Super Saver belts: Popular size belts made from our AO/X "PC" material (Preferred's Economy Choice). These Super Saver items are offered at substantially lower prices than our regular pricing.



SIZE	GRIT / LIST EACH						
	36	40	50	60	80	100	120
1 x 42 Std. Pkg. 50	70162-PC \$1.40	70163-PC \$1.35	70164-PC \$1.32	70165-PC \$1.28	70166-PC \$1.24	70167-PC \$1.22	70168-PC \$1.22
2 x 48 Std. Pkg. 10	70318-PC \$2.75	70319-PC \$2.61	70320-PC \$2.51	70321-PC \$2.41	70322-PC \$2.30	70323-PC \$2.23	70324-PC \$2.23
2 x 132 Std. Pkg. 10	70378-PC \$6.96	70379-PC \$6.55	70380-PC \$6.20	70381-PC \$5.87	70382-PC \$5.52	70383-PC \$5.29	70384-PC \$5.29
3 x 21 Std. Pkg. 10	70522-PC \$1.67	70523-PC \$1.62	70524-PC \$1.57	70525-PC \$1.53	70526-PC \$1.48	70527-PC \$1.45	70528-PC \$1.45
3 x 132 Std. Pkg. 10	70642-PC \$10.49	70643-PC \$9.86	70644-PC \$9.31	70645-PC \$8.81	70646-PC \$8.26	70647-PC \$7.90	70648-PC \$7.90
4 x 24 Std. Pkg. 10	70738-PC \$2.76	70739-PC \$2.67	70740-PC \$2.59	70741-PC \$2.51	70742-PC \$2.42	70743-PC \$2.38	70744-PC \$2.38
4 x 36 Std. Pkg. 10	70762-PC \$4.02	70763-PC \$3.83	70764-PC \$3.71	70765-PC \$3.57	70766-PC \$3.42	70767-PC \$3.31	70768-PC \$3.31
6 x 48 Std. Pkg. 10	70990-PC \$7.40	70991-PC \$7.06	70992-PC \$6.76	70993-PC \$6.48	70994-PC \$6.17	70995-PC \$5.97	70996-PC \$5.97

Pump Sleeves

AO/J Open Coat

Std. Pkg. 10

SIZE	GRIT	ITEM NO.	LIST EACH
9" x 7-15/32" (2" Dia. x 9" Long)	60	69908	\$ 3.30
	80	69909	\$ 2.80
	120	69911	\$ 2.67
	180	69913	\$ 2.67
9" x 10-5/8" (3" Dia. x 9" Long)	60	69920	\$ 4.69
	80	69921	\$ 3.96
	120	69923	\$ 3.74
	180	69925	\$ 3.74
9" x 13-3/4" (4" Dia. x 9" Long)	60	69932	\$ 6.06
	80	69933	\$ 5.15
	120	69935	\$ 4.87
	180	69937	\$ 4.87



SIZE	GRIT	ITEM NO.	LIST EACH
9" x 20" (6" Dia. x 9" Long)	60	69944	\$ 6.18
	80	69945	\$ 5.92
	120	69947	\$ 5.82
	180	69949	\$ 5.82
9" x 26-5/16" (8" Dia. x 9" Long)	60	69956	\$ 7.38
	80	69957	\$ 7.08
	120	69959	\$ 6.56
	180	69961	\$ 6.56

Other sizes & grits are available. Normal delivery is approximately 5 work days.

GREASE STICKS



Formax F-26 Grease Stick: Helps prevent loading. This light bodied grease spreads out thinly and remains "wet" on the belt. Recommended for all belt-polishing operations - metals, plastics and glass.

DESC.	ITEM NO.	LIST EACH
Formax F-26	68010	\$ 9.94

BELT CLEANING STICKS



Cleaning sticks are designed to remove wood and other non-metallic materials that build up & clog the surface.

SIZE	ITEM NO.	LIST EA.
1-1/2 x 1-1/2 x 8	68026	\$ 10.79
2 x 2 x 12	68027	\$ 16.50

Narrow Cloth Belts

AO/X Standard
 ZA/Y Plus (Green Zirc)
 CA/Y Plus (Firestorm Ceramic)



*** See page 8 for all "AO Super Saver" belts

SIZE	MTL.	GRIT / LIST EACH						
		36	40	50	60	80	100	120 & F
1/4 x 18 Std. Pkg. 50	AO/X	70045 \$0.89	70046 \$0.87	70047 \$0.86	70048 \$0.85	70049 \$0.84	700490 \$0.83	700491 \$0.83
	ZA/Y +	70045-Z3 \$1.69	70046-Z3 \$1.67	70047-Z3 \$1.65	70048-Z3 \$1.63	70049-Z3 \$1.60	700490-Z3 \$1.58	700491-Z3 \$1.58
	CA/Y +	70045-C3 \$2.21	70046-C3 \$2.19	70047-C3 \$2.16	70048-C3 \$2.13	70049-C3 \$2.10	700490-C3 \$2.07	700491-C3 \$2.07
3/8 x 13 Std. Pkg. 50	AO/X	70058-02 \$0.80	70058-03 \$0.79	70058-04 \$0.78	70059 \$0.78	70060 \$0.77	70061 \$0.77	70062 \$0.77
	ZA/Y +	70058-02-Z3 \$1.54	70058-03-Z3 \$1.51	70058-04-Z3 \$1.49	70059-Z3 \$1.49	70060-Z3 \$1.47	70061-Z3 \$1.47	70062-Z3 \$1.47
	CA/Y +	70058-02-C3 \$2.01	70058-03-C3 \$1.98	70058-04-C3 \$1.95	70059-C3 \$1.95	70060-C3 \$1.92	70061-C3 \$1.92	70062-C3 \$1.92
1/2 x 12 Std. Pkg. 50	AO/X	70072 \$0.80	70073 \$0.79	70074 \$0.78	70075 \$0.78	70076 \$0.77	70077 \$0.77	70078 \$0.77
	ZA/Y +	70072-Z3 \$1.54	70073-Z3 \$1.51	70074-Z3 \$1.49	70075-Z3 \$1.49	70076-Z3 \$1.47	70077-Z3 \$1.47	70078-Z3 \$1.47
	CA/Y +	70072-C3 \$2.01	70073-C3 \$1.98	70074-C3 \$1.95	70075-C3 \$1.95	70076-C3 \$1.92	70077-C3 \$1.92	70078-C3 \$1.92
1/2 x 18 Std. Pkg. 50	AO/X	700811-02 \$0.89	700811-03 \$0.87	700811-04 \$0.86	700811-05 \$0.85	700811-06 \$0.84	700811-07 \$0.83	700811-08 \$0.83
	ZA/Y +	700811-02-Z3 \$1.69	700811-03-Z3 \$1.67	700811-04-Z3 \$1.65	700811-05-Z3 \$1.63	700811-06-Z3 \$1.60	700811-07-Z3 \$1.58	700811-08-Z3 \$1.58
	CA/Y +	700811-02-C3 \$2.21	700811-03-C3 \$2.19	700811-04-C3 \$2.16	700811-05-C3 \$2.13	700811-06-C3 \$2.10	700811-07-C3 \$2.07	700811-08-C3 \$2.07
1/2 x 24 Std. Pkg. 50	AO/X	70084 \$0.94	70085 \$0.93	70086 \$0.92	70087 \$0.91	70088 \$0.89	70089 \$0.87	70090 \$0.87
	ZA/Y +	70084-Z3 \$1.80	70085-Z3 \$1.78	70086-Z3 \$1.76	70087-Z3 \$1.74	70088-Z3 \$1.69	70089-Z3 \$1.67	70090-Z3 \$1.67
	CA/Y +	70084-C3 \$2.36	70085-C3 \$2.33	70086-C3 \$2.30	70087-C3 \$2.27	70088-C3 \$2.21	70089-C3 \$2.19	70090-C3 \$2.19
3/4 x 18 Std. Pkg. 50	AO/X	70120 \$1.00	70121 \$0.98	70122 \$0.97	70123 \$0.96	70124 \$0.93	70125-07 \$0.92	70125-08 \$0.92
	ZA/Y +	70120-Z3 \$1.91	70121-Z3 \$1.87	70122-Z3 \$1.85	70123-Z3 \$1.83	70124-Z3 \$1.78	70125-07-Z3 \$1.76	70125-08-Z3 \$1.76
	CA/Y +	70120-C3 \$2.51	70121-C3 \$2.45	70122-C3 \$2.42	70123-C3 \$2.39	70124-C3 \$2.33	70125-07-C3 \$2.30	70125-08-C3 \$2.30
3/4 x 20-1/2 Std. Pkg. 50	AO/X	70126 \$1.00	70127 \$0.98	70128 \$0.97	70129 \$0.96	70130 \$0.93	70131 \$0.92	70132 \$0.92
	ZA/Y +	70126-Z3 \$1.91	70127-Z3 \$1.87	70128-Z3 \$1.85	70129-Z3 \$1.83	70130-Z3 \$1.78	70131-Z3 \$1.76	70132-Z3 \$1.76
	CA/Y +	70126-C3 \$2.51	70127-C3 \$2.45	70128-C3 \$2.42	70129-C3 \$2.39	70130-C3 \$2.33	70131-C3 \$2.30	70132-C3 \$2.30

AO/X STANDARD is the base price. Use these multipliers for other materials.

Use the following multipliers for Narrow Belts Only! (12" & narrower)

Grain	Desc. (Part # Extension)	Grade	Mult.	Grain	Desc. (Part # Extension)	Grade	Mult.
A/O	AO/J PC Pref. Econ. Choice (-JPC)	JA165	1.00	Z/A	ZA/X Pref. Econ. Choice (-ZPC)	XZ677	1.55
	AO/J Premium (-J2)	KAF	1.25		ZA/Y Standard (-Z)	PZ628	1.67
	AO/J Plus G.A. (-J3)	KA537	1.25		ZA/Y Plus G.A. (Shown Above) (-Z3)	R203	1.91
	AO/X PC Pref. Econ. Choice (-PC)	XA167	0.93	C/A	CA/Y Plus G.A. (Shown Above) (-C3)	SK855	2.50
	AO/X Standard (Shown Above)	XA911	1.00		WOOD-WORKING		
		AO/Y Plus G.A. (-Y)	R192	1.15	A/O	AO/X Open Coat (-4)	K35
	AO/Y Premium Poly (-PM)	P355	1.20		AO/Y Washable / OC (-4W)	W25	1.10
S/C	SC/Y Standard W/P (-S)	S181	1.20	C/A	CA/Y Premium Wood (-C4)	YS945	1.65

Grain abbreviations: AO = Aluminum Oxide, SC = Silicon Carbide, ZA = Zirconia Alumina, CA = Ceramic Alumina, G.A. = Grinding Aid.

Narrow Cloth Belts

AO/X Standard
 ZA/Y Plus (Green Zirc)
 CA/Y Plus (Firestorm Ceramic)



*** See page 8 for all "AO Super Saver" belts

SIZE	MTL.	GRIT / LIST EACH						
		36	40	50	60	80	100	120 & F
1 x 12 Std. Pkg. 50	AO/X	70150 \$1.17	70151 \$1.14	70152 \$1.13	70153 \$1.12	70154 \$1.11	70155 \$1.10	70156 \$1.10
	ZA/Y +	70150-Z3 \$2.23	70151-Z3 \$2.18	70152-Z3 \$2.16	70153-Z3 \$2.14	70154-Z3 \$2.11	70155-Z3 \$2.09	70156-Z3 \$2.09
	CA/Y +	70150-C3 \$2.91	70151-C3 \$2.86	70152-C3 \$2.83	70153-C3 \$2.80	70154-C3 \$2.77	70155-C3 \$2.74	70156-C3 \$2.74
1 x 21 Std. Pkg. 50	AO/X	70159-02 \$1.34	70159-03 \$1.31	70159-04 \$1.10	70159-05 \$1.27	70159-06 \$1.24	70159-07 \$1.22	70159-08 \$1.22
	ZA/Y +	70159-02-Z3 \$2.56	70159-03-Z3 \$2.49	70159-04-Z3 \$2.09	70159-05-Z3 \$2.43	70159-06-Z3 \$2.36	70159-07-Z3 \$2.34	70159-08-Z3 \$2.34
	CA/Y +	70159-02-C3 \$3.35	70159-03-C3 \$3.26	70159-04-C3 \$2.74	70159-05-C3 \$3.18	70159-06-C3 \$3.09	70159-07-C3 \$3.06	70159-08-C3 \$3.06
1 x 30 Std. Pkg. 50	AO/X	701602 \$1.42	701603 \$1.39	701604 \$1.35	701605 \$1.33	701606 \$1.29	701607 \$1.27	701608 \$1.27
	ZA/Y +	701602-Z3 \$2.72	701603-Z3 \$2.65	701604-Z3 \$2.58	701605-Z3 \$2.54	701606-Z3 \$2.46	701607-Z3 \$2.43	701608-Z3 \$2.43
	CA/Y +	701602-C3 \$3.56	701603-C3 \$3.47	701604-C3 \$3.38	701605-C3 \$3.32	701606-C3 \$3.21	701607-C3 \$3.18	701608-C3 \$3.18
1 x 42 Std. Pkg. 50	AO/X	70162 \$1.64	70163 \$1.60	70164 \$1.55	70165 \$1.50	70166 \$1.46	70167 \$1.43	70168 \$1.43
	***	70162-PC	70163-PC	70164-PC	70165-PC	70166-PC	70167-PC	70168-PC
	AO SS	\$1.40	\$1.35	\$1.32	\$1.28	\$1.24	\$1.22	\$1.22
	ZA/Y +	70162-Z3 \$3.14	70163-Z3 \$3.05	70164-Z3 \$2.96	70165-Z3 \$2.87	70166-Z3 \$2.78	70167-Z3 \$2.74	70168-Z3 \$2.74
CA/Y +	70162-C3 \$4.11	70163-C3 \$3.99	70164-C3 \$3.88	70165-C3 \$3.76	70166-C3 \$3.64	70167-C3 \$3.58	70168-C3 \$3.58	
1 x 132 Std. Pkg. 10	AO/X	70190-02 \$5.41	70190-03 \$5.12	70190-04 \$4.90	70190-05 \$4.70	70190-06 \$4.42	70190-07 \$4.29	70190-08 \$4.29
	ZA/Y +	70190-02-Z3 \$10.33	70190-03-Z3 \$9.78	70190-04-Z3 \$9.37	70190-05-Z3 \$8.98	70190-06-Z3 \$8.43	70190-07-Z3 \$8.20	70190-08-Z3 \$8.20
	CA/Y +	70190-02-C3 \$13.52	70190-03-C3 \$12.81	70190-04-C3 \$12.26	70190-05-C3 \$11.75	70190-06-C3 \$11.04	70190-07-C3 \$10.73	70190-08-C3 \$10.73
1-1/8 x 21 Std. Pkg. 50	AO/X	70202 \$1.89	70203 \$1.84	70204 \$1.80	70205 \$1.76	70206 \$1.73	70207 \$1.70	70208 \$1.70
	ZA/Y +	70202-Z3 \$3.61	70203-Z3 \$3.52	70204-Z3 \$3.43	70205-Z3 \$3.36	70206-Z3 \$3.29	70207-Z3 \$3.25	70208-Z3 \$3.25
	CA/Y +	70202-C3 \$4.72	70203-C3 \$4.60	70204-C3 \$4.49	70205-C3 \$4.40	70206-C3 \$4.31	70207-C3 \$4.25	70208-C3 \$4.25
1-1/2 x 60 Std. Pkg. 10	AO/X	70246 \$3.44	70247 \$3.35	70248 \$3.21	70249 \$3.08	70250 \$2.94	70251 \$2.84	70252 \$2.84
	ZA/Y +	70246-Z3 \$6.57	70247-Z3 \$6.39	70248-Z3 \$6.12	70249-Z3 \$5.88	70250-Z3 \$5.61	70251-Z3 \$5.43	70252-Z3 \$5.43
	CA/Y +	70246-C3 \$8.60	70247-C3 \$8.36	70248-C3 \$8.01	70249-C3 \$7.69	70250-C3 \$7.34	70251-C3 \$7.11	70252-C3 \$7.11
1-1/2 x 72 Std. Pkg. 10	AO/X	70258 \$3.88	70259 \$3.78	70260 \$3.61	70261 \$3.45	70262 \$3.28	70263 \$3.17	70264 \$3.17
	ZA/Y +	70258-Z3 \$7.41	70259-Z3 \$7.21	70260-Z3 \$6.90	70261-Z3 \$6.59	70262-Z3 \$6.26	70263-Z3 \$6.06	70264-Z3 \$6.06
	CA/Y +	70258-C3 \$9.70	70259-C3 \$9.44	70260-C3 \$9.03	70261-C3 \$8.63	70262-C3 \$8.19	70263-C3 \$7.93	70264-C3 \$7.93
1-1/2 x 132 Std. Pkg. 10	AO/X	702661-02 \$6.11	702661-03 \$5.90	702661-04 \$5.59	702661-05 \$5.30	702661-06 \$5.00	702661-07 \$4.80	702661-08 \$4.80
	ZA/Y +	702661-02-Z3 \$11.67	702661-03-Z3 \$11.27	702661-04-Z3 \$10.69	702661-05-Z3 \$10.13	702661-06-Z3 \$9.55	702661-07-Z3 \$9.17	702661-08-Z3 \$9.17
	CA/Y +	702661-02-C3 \$15.27	702661-03-C3 \$14.74	702661-04-C3 \$13.99	702661-05-C3 \$13.26	702661-06-C3 \$12.50	702661-07-C3 \$12.01	702661-08-C3 \$12.01

To calculate the list price for other materials, use the AO/X price with the multipliers shown on page 9.

Narrow Cloth Belts

AO/X Standard
ZA/Y Plus (Green Zirc)
CA/Y Plus (Firestorm Ceramic)



*** See page 8 for all "AO Super Saver" belts

SIZE	MTL.	GRIT / LIST EACH						
		36	40	50	60	80	100	120 & F
2 x 18-15/16 Std. Pkg. 10	AO/X	70267-02 \$2.12	70267-03 \$2.05	70267-04 \$1.99	70267-05 \$1.96	70267-06 \$1.90	70267-07 \$1.85	70267-08 \$1.85
	ZA/Y +	70267-02-Z3 \$4.05	70267-03-Z3 \$3.92	70267-04-Z3 \$3.81	70267-05-Z3 \$3.74	70267-06-Z3 \$3.63	70267-07-Z3 \$3.54	70267-08-Z3 \$3.54
	CA/Y +	70267-02-C3 \$5.30	70267-03-C3 \$5.13	70267-04-C3 \$4.98	70267-05-C3 \$4.90	70267-06-C3 \$4.75	70267-07-C3 \$4.63	70267-08-C3 \$4.63
2 x 30 Std. Pkg. 10	AO/X	70268-02 \$2.72	70268-03 \$2.61	70268-04 \$2.53	70268-05 \$2.45	70268-06 \$2.35	70268-07 \$2.30	70268-08 \$2.30
	ZA/Y +	70268-02-Z3 \$5.19	70268-03-Z3 \$4.99	70268-04-Z3 \$4.83	70268-05-Z3 \$4.68	70268-06-Z3 \$4.50	70268-07-Z3 \$4.39	70268-08-Z3 \$4.39
	CA/Y +	70268-02-C3 \$6.79	70268-03-C3 \$6.53	70268-04-C3 \$6.32	70268-05-C3 \$6.12	70268-06-C3 \$5.89	70268-07-C3 \$5.74	70268-08-C3 \$5.74
2 x 36 Std. Pkg. 10	AO/X	70276 \$3.02	70277 \$2.89	70278 \$2.82	70279 \$2.69	70280 \$2.59	70281 \$2.51	70282 \$2.51
	ZA/Y +	70276-Z3 \$5.77	70277-Z3 \$5.52	70278-Z3 \$5.39	70279-Z3 \$5.14	70280-Z3 \$4.94	70281-Z3 \$4.79	70282-Z3 \$4.79
	CA/Y +	70276-C3 \$7.55	70277-C3 \$7.23	70278-C3 \$7.05	70279-C3 \$6.73	70280-C3 \$6.47	70281-C3 \$6.27	70282-C3 \$6.27
2 x 42 Std. Pkg. 10	AO/X	70294 \$3.31	70295 \$3.17	70296 \$3.04	70297 \$2.94	70298 \$2.81	70299 \$2.73	70300 \$2.73
	ZA/Y +	70294-Z3 \$6.32	70295-Z3 \$6.06	70296-Z3 \$5.81	70297-Z3 \$5.61	70298-Z3 \$5.37	70299-Z3 \$5.21	70300-Z3 \$5.21
	CA/Y +	70294-C3 \$8.28	70295-C3 \$7.93	70296-C3 \$7.61	70297-C3 \$7.34	70298-C3 \$7.02	70299-C3 \$6.82	70300-C3 \$6.82
2 x 48 Std. Pkg. 10	AO/X	70318 \$3.62	70319 \$3.45	70320 \$3.31	70321 \$3.18	70322 \$3.03	70323 \$2.94	70324 \$2.94
	*** AO SS	70318-PC \$2.75	70319-PC \$2.61	70320-PC \$2.51	70321-PC \$2.41	70322-PC \$2.30	70323-PC \$2.23	70324-PC \$2.23
	ZA/Y +	70318-Z3 \$6.91	70319-Z3 \$6.60	70320-Z3 \$6.32	70321-Z3 \$6.08	70322-Z3 \$5.80	70323-Z3 \$5.61	70324-Z3 \$5.61
	CA/Y +	70318-C3 \$9.05	70319-C3 \$8.63	70320-C3 \$8.27	70321-C3 \$7.95	70322-C3 \$7.59	70323-C3 \$7.34	70324-C3 \$7.34
2 x 60 Std. Pkg. 10	AO/X	70330 \$4.22	70331 \$4.01	70332 \$3.83	70333 \$3.67	70334 \$3.49	70335 \$3.37	70336 \$3.37
	ZA/Y +	70330-Z3 \$8.06	70331-Z3 \$7.66	70332-Z3 \$7.32	70333-Z3 \$7.01	70334-Z3 \$6.66	70335-Z3 \$6.43	70336-Z3 \$6.43
	CA/Y +	70330-C3 \$10.55	70331-C3 \$10.02	70332-C3 \$9.59	70333-C3 \$9.18	70334-C3 \$8.71	70335-C3 \$8.42	70336-C3 \$8.42
2 x 72 Std. Pkg. 10	AO/X	70342 \$4.83	70343 \$4.02	70344 \$4.36	70345 \$4.16	70346 \$3.94	70347 \$3.80	70348 \$3.80
	ZA/Y +	70342-Z3 \$9.22	70343-Z3 \$7.68	70344-Z3 \$8.33	70345-Z3 \$7.95	70346-Z3 \$7.52	70347-Z3 \$7.26	70348-Z3 \$7.26
	CA/Y +	70342-C3 \$12.06	70343-C3 \$10.05	70344-C3 \$10.90	70345-C3 \$10.40	70346-C3 \$9.85	70347-C3 \$9.50	70348-C3 \$9.50
2 x 132 Std. Pkg. 10	AO/X	70378 \$7.82	70379 \$7.37	70380 \$6.97	70381 \$6.61	70382 \$6.21	70383 \$5.96	70384 \$5.96
	*** AO SS	70378-PC \$6.96	70379-PC \$6.55	70380-PC \$6.20	70381-PC \$5.87	70382-PC \$5.52	70383-PC \$5.29	70384-PC \$5.29
	ZA/Y +	70378-Z3 \$14.94	70379-Z3 \$14.07	70380-Z3 \$13.31	70381-Z3 \$12.62	70382-Z3 \$11.87	70383-Z3 \$11.38	70384-Z3 \$11.38
	CA/Y +	70378-C3 \$19.55	70379-C3 \$18.42	70380-C3 \$17.43	70381-C3 \$16.52	70382-C3 \$15.53	70383-C3 \$14.89	70384-C3 \$14.89

To calculate the list price for other materials, use the AO/X price with the multipliers shown on page 12.

Narrow Cloth Belts

AO/X Standard
 ZA/Y Plus (Green Zirc)
 CA/Y Plus (Firestorm Ceramic)



*** See page 8 for all "AO Super Saver" belts

		GRIT / LIST EACH						
SIZE	MTL.	36	40	50	60	80	100	120 & F
2-1/2 x 48 Std. Pkg. 10	AO/X	70426 \$4.51	70427 \$4.31	70428 \$4.13	70429 \$3.96	70430 \$3.78	70431 \$3.65	70432 \$3.65
	ZA/Y +	70426-Z3 \$8.62	70427-Z3 \$8.24	70428-Z3 \$7.88	70429-Z3 \$7.57	70430-Z3 \$7.21	70431-Z3 \$6.97	70432-Z3 \$6.97
	CA/Y +	70426-C3 \$11.28	70427-C3 \$10.78	70428-C3 \$10.32	70429-C3 \$9.91	70430-C3 \$9.44	70431-C3 \$9.12	70432-C3 \$9.12
2-1/2 x 60 Std. Pkg. 10	AO/X	70438 \$5.27	70439 \$5.01	70440 \$4.78	70441 \$4.57	70442 \$4.35	70443 \$4.18	70444 \$4.18
	ZA/Y +	70438-Z3 \$10.06	70439-Z3 \$9.57	70440-Z3 \$9.13	70441-Z3 \$8.73	70442-Z3 \$8.30	70443-Z3 \$7.99	70444-Z3 \$7.99
	CA/Y +	70438-C3 \$13.17	70439-C3 \$12.53	70440-C3 \$11.95	70441-C3 \$11.42	70442-C3 \$10.87	70443-C3 \$10.46	70444-C3 \$10.46
3 x 21 Std. Pkg. 10	AO/X	70522 \$2.54	70523 \$2.46	70524 \$2.39	70525 \$2.32	70526 \$2.25	70527 \$2.20	70528 \$2.20
	*** AO SS	70522-PC \$1.67	70523-PC \$1.62	70524-PC \$1.57	70525-PC \$1.53	70526-PC \$1.48	70527-PC \$1.45	70528-PC \$1.45
	ZA/Y +	70522-Z3 \$4.85	70523-Z3 \$4.70	70524-Z3 \$4.56	70525-Z3 \$4.43	70526-Z3 \$4.30	70527-Z3 \$4.21	70528-Z3 \$4.21
	CA/Y +	70522-C3 \$6.35	70523-C3 \$6.15	70524-C3 \$5.97	70525-C3 \$5.80	70526-C3 \$5.62	70527-C3 \$5.51	70528-C3 \$5.51
3 x 24 Std. Pkg. 10	AO/X	70546 \$2.72	70547 \$2.61	70548 \$2.53	70549 \$2.46	70550 \$2.37	70551 \$2.32	70552 \$2.32
	ZA/Y +	70546-Z3 \$5.19	70547-Z3 \$4.99	70548-Z3 \$4.83	70549-Z3 \$4.70	70550-Z3 \$4.52	70551-Z3 \$4.43	70552-Z3 \$4.43
	CA/Y +	70546-C3 \$6.79	70547-C3 \$6.53	70548-C3 \$6.32	70549-C3 \$6.15	70550-C3 \$5.92	70551-C3 \$5.80	70552-C3 \$5.80
3 x 48 Std. Pkg. 10	AO/X	70556-02 \$5.41	70556-03 \$5.15	70556-04 \$4.93	70556-05 \$4.72	70556-06 \$4.50	70556-07 \$4.36	70556-08 \$4.36
	ZA/Y +	70556-02-Z3 \$10.33	70556-03-Z3 \$9.84	70556-04-Z3 \$9.42	70556-05-Z3 \$9.02	70556-06-Z3 \$8.59	70556-07-Z3 \$8.33	70556-08-Z3 \$8.33
	CA/Y +	70556-02-C3 \$13.52	70556-03-C3 \$12.88	70556-04-C3 \$12.33	70556-05-C3 \$11.80	70556-06-C3 \$11.25	70556-07-C3 \$10.90	70556-08-C3 \$10.90
3 x 72 Std. Pkg. 10	AO/X	70558 \$7.19	70559 \$6.82	70560 \$6.48	70561 \$6.18	70562 \$5.84	70563 \$5.62	70564 \$5.62
	ZA/Y +	70558-Z3 \$13.74	70559-Z3 \$13.02	70560-Z3 \$12.38	70561-Z3 \$11.80	70562-Z3 \$11.15	70563-Z3 \$10.73	70564-Z3 \$10.73
	CA/Y +	70558-C3 \$17.98	70559-C3 \$17.05	70560-C3 \$16.20	70561-C3 \$15.44	70562-C3 \$14.60	70563-C3 \$14.05	70564-C3 \$14.05
3 x 79 Std. Pkg. 10	AO/X	705701-02 \$7.71	705701-03 \$7.30	705701-04 \$6.94	70571 \$6.60	70572 \$6.24	70573 \$5.99	70574 \$5.99
	ZA/Y +	705701-02-Z3 \$14.73	705701-03-Z3 \$13.94	705701-04-Z3 \$13.25	70571-Z3 \$12.60	70572-Z3 \$11.91	70573-Z3 \$11.44	70574-Z3 \$11.44
	CA/Y +	705701-02-C3 \$19.29	705701-03-C3 \$18.24	705701-04-C3 \$17.34	70571-C3 \$16.49	70572-C3 \$15.59	70573-C3 \$14.98	70574-C3 \$14.98

AO/X STANDARD is the base price. Use these multipliers for other materials.

Use the following multipliers for Narrow Belts Only! (12" & narrower)

Grain	Desc. (Part # Extension)	Grade	Mult.	Grain	Desc. (Part # Extension)	Grade	Mult.
A/O	AO/J PC Pref. Econ. Choice (-JPC)	JA165	1.00	Z/A	ZAX Pref. Econ. Choice (-ZPC)	XZ677	1.55
	AO/J Premium (-J2)	KAF	1.25		ZA/Y Standard (-Z)	PZ628	1.67
	AO/J Plus G.A. (-J3)	KA537	1.25		ZA/Y Plus G.A. (Shown Above) (-Z3)	R203	1.91
	AO/X PC Pref. Econ. Choice (-PC)	XA167	0.93	C/A	CA/Y Plus G.A. (Shown Above) (-C3)	SK855	2.50
	AO/X Standard (Shown Above)	XA911	1.00	WOOD-WORKING			
	AO/Y Plus G.A. (-Y)	R192	1.15	A/O	AO/X Open Coat (-4)	K35	1.00
AO/Y Premium Poly (-PM)	P355	1.20	AO/Y Washable / OC (-4W)		W25	1.10	
S/C	SC/Y Standard W/P (-S)	S181	1.20	C/A	CA/Y Premium Wood (-C4)	YS945	1.65

Grain abbreviations: AO = Aluminum Oxide, SC = Silicon Carbide, ZA = Zirconia Alumina, CA = Ceramic Alumina, G.A. = Grinding Aid.

Narrow Cloth Belts

AO/X Standard
 ZA/Y Plus (Green Zirc)
 CA/Y Plus (Firestorm Ceramic)



*** See page 8 for all "AO Super Saver" belts

SIZE	MTL.	GRIT / LIST EACH						
		36	40	50	60	80	100	120 & F
3 x 90 Std. Pkg. 10	AO/X	70582 \$8.53	70584 \$8.05	70585 \$7.63	70586 \$7.25	70587 \$6.84	70588 \$6.57	70589 \$6.57
	ZA/Y +	70582-Z3 \$16.30	70584-Z3 \$15.38	70585-Z3 \$14.58	70586-Z3 \$13.85	70587-Z3 \$13.07	70588-Z3 \$12.56	70589-Z3 \$12.56
	CA/Y +	70582-C3 \$21.33	70584-C3 \$20.14	70585-C3 \$19.09	70586-C3 \$18.13	70587-C3 \$17.11	70588-C3 \$16.43	70589-C3 \$16.43
3 x 132 Std. Pkg. 10	AO/X	70642 \$11.67	70643 \$10.97	70644 \$10.35	70645 \$9.79	70646 \$9.18	70647 \$8.79	70648 \$8.79
	*** AO SS	70642-PC \$10.49	70643-PC \$9.86	70644-PC \$9.31	70645-PC \$8.81	70646-PC \$8.26	70647-PC \$7.90	70648-PC \$7.90
	ZA/Y +	70642-Z3 \$22.29	70643-Z3 \$20.95	70644-Z3 \$19.77	70645-Z3 \$18.70	70646-Z3 \$17.54	70647-Z3 \$16.79	70648-Z3 \$16.79
	CA/Y +	70642-C3 \$29.17	70643-C3 \$27.42	70644-C3 \$25.88	70645-C3 \$24.48	70646-C3 \$22.96	70647-C3 \$21.97	70648-C3 \$21.97
3-1/2 x 15-1/2 Std. Pkg. 10	AO/X	70690 \$3.47	70691 \$3.38	70692 \$3.30	70693 \$3.22	70694 \$3.14	70695 \$3.09	70696 \$3.09
	ZA/Y +	70690-Z3 \$6.63	70691-Z3 \$6.46	70692-Z3 \$6.30	70693-Z3 \$6.14	70694-Z3 \$5.99	70695-Z3 \$5.90	70696-Z3 \$5.90
	CA/Y +	70690-C3 \$8.68	70691-C3 \$8.45	70692-C3 \$8.25	70693-C3 \$8.04	70694-C3 \$7.84	70695-C3 \$7.72	70696-C3 \$7.72
4 x 24 Std. Pkg. 10	AO/X	70738 \$3.60	70739 \$3.47	70740 \$3.37	70741 \$3.26	70742 \$3.16	70743 \$3.09	70744 \$3.09
	*** AO SS	70738-PC \$2.76	70739-PC \$2.67	70740-PC \$2.59	70741-PC \$2.51	70742-PC \$2.42	70743-PC \$2.38	70744-PC \$2.38
	ZA/Y +	70738-Z3 \$6.88	70739-Z3 \$6.63	70740-Z3 \$6.43	70741-Z3 \$6.23	70742-Z3 \$6.03	70743-Z3 \$5.90	70744-Z3 \$5.90
	CA/Y +	70738-C3 \$9.00	70739-C3 \$8.68	70740-C3 \$8.42	70741-C3 \$8.16	70742-C3 \$7.90	70743-C3 \$7.72	70744-C3 \$7.72
4 x 36 Std. Pkg. 10	AO/X	70762 \$6.00	70763 \$5.73	70764 \$5.54	70765 \$5.33	70766 \$5.11	70767 \$4.95	70768 \$4.95
	*** AO SS	70762-PC \$4.02	70763-PC \$3.83	70764-PC \$3.71	70765-PC \$3.57	70766-PC \$3.42	70767-PC \$3.31	70768-PC \$3.31
	ZA/Y +	70762-Z3 \$11.47	70763-Z3 \$10.95	70764-Z3 \$10.57	70765-Z3 \$10.17	70766-Z3 \$9.75	70767-Z3 \$9.46	70768-Z3 \$9.46
	CA/Y +	70762-C3 \$15.01	70763-C3 \$14.34	70764-C3 \$13.84	70765-C3 \$13.32	70766-C3 \$12.76	70767-C3 \$12.38	70768-C3 \$12.38
4 x 54 Std. Pkg. 10	AO/X	70786 \$7.79	70787 \$7.39	70788 \$7.09	70789 \$6.76	70790 \$6.45	70791 \$6.21	70792 \$6.21
	ZA/Y +	70786-Z3 \$14.87	70787-Z3 \$14.11	70788-Z3 \$13.54	70789-Z3 \$12.91	70790-Z3 \$12.31	70791-Z3 \$11.87	70792-Z3 \$11.87
	CA/Y +	70786-C3 \$19.47	70787-C3 \$18.47	70788-C3 \$17.72	70789-C3 \$16.90	70790-C3 \$16.11	70791-C3 \$15.53	70792-C3 \$15.53
4 x 60 Std. Pkg. 10	AO/X	70793 \$8.38	70794 \$7.94	70794-04 \$7.60	70795 \$7.25	70796-06 \$6.89	70796-07 \$6.63	70796-08 \$6.63
	ZA/Y +	70793-Z3 \$16.01	70794-Z3 \$15.16	70794-04-Z3 \$14.52	70795-Z3 \$13.85	70796-06-Z3 \$13.16	70796-07-Z3 \$12.67	70796-08-Z3 \$12.67
	CA/Y +	70793-C3 \$20.95	70794-C3 \$19.84	70794-04-C3 \$19.00	70795-C3 \$18.13	70796-06-C3 \$17.22	70796-07-C3 \$16.58	70796-08-C3 \$16.58
4 x 90 Std. Pkg. 10	AO/X	70802 \$11.34	70803 \$10.69	70804 \$10.18	70805 \$9.65	70806 \$9.11	70807 \$8.72	70808 \$8.72
	ZA/Y +	70802-Z3 \$21.66	70803-Z3 \$20.42	70804-Z3 \$19.44	70805-Z3 \$18.43	70806-Z3 \$17.41	70807-Z3 \$16.65	70808-Z3 \$16.65
	CA/Y +	70802-C3 \$28.35	70803-C3 \$26.72	70804-C3 \$25.44	70805-C3 \$24.13	70806-C3 \$22.79	70807-C3 \$21.80	70808-C3 \$21.80

To calculate the list price for other materials, use the AO/X price with the multipliers shown on page 12.

Narrow Cloth Belts

AO/X Standard
 ZA/Y Plus (Green Zirc)
 CA/Y Plus (Firestorm Ceramic)



*** See page 8 for all "AO Super Saver" belts

SIZE	MTL.	GRIT / LIST EACH						
		36	40	50	60	80	100	120 & F
4 x 106 Std. Pkg. 10	AO/X	70825 \$12.93	70826 \$12.16	70827 \$11.56	70828 \$10.93	70829 \$10.32	70830 \$9.84	70831 \$9.84
	ZA/Y +	70825-Z3 \$24.69	70826-Z3 \$23.22	70827-Z3 \$22.08	70828-Z3 \$20.88	70829-Z3 \$19.70	70830-Z3 \$18.79	70831-Z3 \$18.79
	CA/Y +	70825-C3 \$32.32	70826-C3 \$30.39	70827-C3 \$28.91	70828-C3 \$27.33	70829-C3 \$25.79	70830-C3 \$24.59	70831-C3 \$24.59
4 x 132 Std. Pkg. 10	AO/X	70882 \$15.50	70883 \$14.55	70884 \$13.80	70885 \$13.02	70886 \$12.24	70887 \$11.66	70888 \$11.66
	ZA/Y +	70882-Z3 \$29.61	70883-Z3 \$27.78	70884-Z3 \$26.36	70885-Z3 \$24.87	70886-Z3 \$23.38	70887-Z3 \$22.26	70888-Z3 \$22.26
	CA/Y +	70882-C3 \$38.76	70883-C3 \$36.37	70884-C3 \$34.50	70885-C3 \$32.55	70886-C3 \$30.60	70887-C3 \$29.14	70888-C3 \$29.14
6 x 48 Std. Pkg. 10	AO/X	70990 \$10.74	70991 \$10.25	70992 \$9.80	70993 \$9.39	70994 \$8.95	70995 \$8.66	70996 \$8.66
	*** AO SS	70990-PC \$7.40	70991-PC \$7.06	70992-PC \$6.76	70993-PC \$6.48	70994-PC \$6.17	70995-PC \$5.97	70996-PC \$5.97
	ZA/Y +	70990-Z3 \$20.50	70991-Z3 \$19.57	70992-Z3 \$18.72	70993-Z3 \$17.94	70994-Z3 \$17.10	70995-Z3 \$16.54	70996-Z3 \$16.54
	CA/Y +	70990-C3 \$26.84	70991-C3 \$25.61	70992-C3 \$24.51	70993-C3 \$23.49	70994-C3 \$22.38	70995-C3 \$21.65	70996-C3 \$21.65
6 x 60 Std. Pkg. 10	AO/X	71026 \$12.51	71027 \$11.89	71028 \$11.34	71029 \$10.83	71030 \$10.28	71031 \$9.91	71032 \$9.91
	ZA/Y +	71026-Z3 \$23.89	71027-Z3 \$22.71	71028-Z3 \$21.66	71029-Z3 \$20.68	71030-Z3 \$19.64	71031-Z3 \$18.92	71032-Z3 \$18.92
	CA/Y +	71026-C3 \$31.27	71027-C3 \$29.72	71028-C3 \$28.35	71029-C3 \$27.07	71030-C3 \$25.70	71031-C3 \$24.77	71032-C3 \$24.77
6 x 132 Std. Pkg. 10	AO/X	71036-02 \$23.14	71036-03 \$21.77	71036-04 \$20.57	71036-05 \$19.45	71037 \$18.24	71038 \$17.43	71039 \$17.43
	ZA/Y +	71036-02-Z3 \$44.19	71036-03-Z3 \$41.59	71036-04-Z3 \$39.29	71036-05-Z3 \$37.16	71037-Z3 \$34.84	71038-Z3 \$33.28	71039-Z3 \$33.28
	CA/Y +	71036-02-C3 \$57.84	71036-03-C3 \$54.43	71036-04-C3 \$51.43	71036-05-C3 \$48.63	71037-C3 \$45.60	71038-C3 \$43.56	71039-C3 \$43.56
6 x 300 Std. Pkg. 10	AO/X	710730-02 \$47.94	710730-03 \$44.84	710730-04 \$42.10	710730-05 \$39.56	710730-06 \$36.82	710730-07 \$34.96	710730-08 \$34.96
	ZA/Y +	710730-02-Z3 \$91.57	710730-03-Z3 \$85.65	710730-04-Z3 \$80.41	710730-05-Z3 \$75.56	710730-06-Z3 \$70.33	710730-07-Z3 \$66.77	710730-08-Z3 \$66.77
	CA/Y +	710730-02-C3 \$119.85	710730-03-C3 \$112.10	710730-04-C3 \$105.25	710730-05-C3 \$98.90	710730-06-C3 \$92.05	710730-07-C3 \$87.39	710730-08-C3 \$87.39
8 x 60 Std. Pkg. 10	AO/X	71080-02 \$16.67	71080-03 \$15.82	71080-04 \$15.08	71080-05 \$14.42	71080-06 \$13.68	71080-07 \$13.21	71080-08 \$13.21
	ZA/Y +	71080-02-Z3 \$31.84	71080-03-Z3 \$30.21	71080-04-Z3 \$28.81	71080-05-Z3 \$27.54	71080-06-Z3 \$26.14	71080-07-Z3 \$25.22	71080-08-Z3 \$25.22
	CA/Y +	71080-02-C3 \$41.67	71080-03-C3 \$39.54	71080-04-C3 \$37.71	71080-05-C3 \$36.05	71080-06-C3 \$34.21	71080-07-C3 \$33.02	71080-08-C3 \$33.02
8 x 107 Std. Pkg. 10	AO/X	71086 \$25.90	71087 \$24.38	71088 \$23.08	71089 \$21.89	71090 \$20.57	71091 \$19.73	71092 \$19.73
	ZA/Y +	71086-Z3 \$49.47	71087-Z3 \$46.57	71088-Z3 \$44.08	71089-Z3 \$41.81	71090-Z3 \$39.29	71091-Z3 \$37.69	71092-Z3 \$37.69
	CA/Y +	71086-C3 \$64.75	71087-C3 \$60.96	71088-C3 \$57.70	71089-C3 \$54.72	71090-C3 \$51.43	71091-C3 \$49.33	71092-C3 \$49.33

To calculate the list price for other materials, use the AO/X price with the multipliers shown on page 12.

Narrow Belt Computation Table

To get the list price per belt for sizes not shown on previous pages:

1) Multiply the list price times the length of the belt (in inches).

(Round up fractional lengths and intermediate widths to the next full size.)

2) Add the joining charge.

3) Multiply the results by the material multiplier.



WIDTH INCHES	STD. PKG.	24	36	40	50	60	80	100 & F	JOINING CHARGE	WIDTH INCHES
1/4	50	0.0081	0.0073	0.0069	0.0065	0.0061	0.0057	0.0053	0.9124	1/4
3/8	50	0.0120	0.0106	0.0097	0.0091	0.0087	0.0081	0.0077	0.9124	3/8
1/2	50	0.0152	0.0138	0.0129	0.0122	0.0114	0.0107	0.0099	0.9124	1/2
5/8	50	0.0190	0.0168	0.0156	0.0145	0.0138	0.0129	0.0122	0.9124	5/8
3/4	50	0.0225	0.0199	0.0183	0.0172	0.0164	0.0152	0.0145	0.9124	3/4
1	50	0.0294	0.0259	0.0241	0.0226	0.0213	0.0195	0.0187	1.2164	1
1-1/4	50	0.0363	0.0320	0.0297	0.0278	0.0259	0.0241	0.0229	1.2164	1-1/4
1-1/2	10	0.0431	0.0370	0.0355	0.0332	0.0310	0.0286	0.0271	1.2164	1-1/2
1-3/4	10	0.0505	0.0443	0.0409	0.0385	0.0359	0.0332	0.0312	1.2164	1-3/4
2	10	0.0573	0.0501	0.0466	0.0436	0.0409	0.0379	0.0359	1.2164	2
2-1/4	10	0.0642	0.0561	0.0523	0.0489	0.0458	0.0424	0.0401	1.5210	2-1/4
2-1/2	10	0.0711	0.0624	0.0581	0.0543	0.0508	0.0470	0.0443	1.5210	2-1/2
3	10	0.0853	0.0745	0.0693	0.0646	0.0603	0.0558	0.0527	1.8249	3
3-1/2	10	0.0990	0.0869	0.0806	0.0754	0.0703	0.0650	0.0616	2.1309	3-1/2
4	10	0.1130	0.0990	0.0913	0.0861	0.0802	0.0743	0.0699	2.4334	4
4-1/2	10	0.1270	0.1114	0.1033	0.0964	0.0903	0.0834	0.0788	2.7373	4-1/2
5	10	0.1412	0.1235	0.1148	0.1071	0.1003	0.0922	0.0871	3.0413	5
6	10	0.1687	0.1476	0.1373	0.1282	0.1197	0.1106	0.1044	3.6491	6
7	10	0.1966	0.1723	0.1600	0.1492	0.1396	0.1285	0.1217	4.2576	7
8	10	0.2246	0.1966	0.1825	0.1703	0.1591	0.1469	0.1389	4.8661	8
9	10	0.2525	0.2208	0.2051	0.1914	0.1790	0.1649	0.1557	5.4747	9
10	10	0.2805	0.2451	0.2276	0.2127	0.1985	0.1832	0.1671	6.0826	10
11	10	0.3084	0.2697	0.2503	0.2337	0.2185	0.2013	0.1902	6.6911	11
12	10	0.3211	0.2809	0.2605	0.2432	0.2271	0.2084	0.1979	7.2989	12

Use the following multipliers for Narrow Belts Only! (12" & narrower)

Grain	Desc. (Part # Extension)	Grade	Mult.	Grain	Desc. (Part # Extension)	Grade	Mult.	
A/O	AO/J PC <i>Pref. Econ. Choice</i> (-JPC)	JA165	1.00	S/C	SC/Y Standard W/P (-S)	S181	1.20	
	AO/J Premium (-J2)	KAF	1.25	Z/A	<i>ZA/X Pref. Econ. Choice</i> (-ZPC)	XZ677	1.55	
	AO/J Plus G.A. (-J3)	KA537	1.25		ZA/Y Standard W/P (-Z)	PZ628	1.67	
	AO/X PC <i>Pref. Econ. Choice</i> (-PC)	XA167	0.93		ZA/Y Plus G.A. (-Z3)	R203	1.91	
	AO/X Standard	XA911,R145	1.00	C/A	CA/Y Premium Wood (-C4)	YS945	1.65	
	AO/X Open Coat (-4)	K35	1.00		CA/Y Firestorm Plus G.A. (-C3)	SK855	2.50	
	AO/Y Plus G.A. (-Y)	R192	1.15					
	AO/Y Premium Poly W/P (-PM)	P355	1.20					
AO/Y Washable / OC (-4W)	W25	1.10						

Grain abbreviations: A/O = Aluminum Oxide, S/C = Silicon Carbide, Z/A = Zirconia Alumina, C/A = Ceramic Blend

Abbreviations: OC = Open Coat, W/P = Waterproof, G. A. = Grinding Aid

Shaded selections represent our most popular materials.

Wide Cloth Belts

- AO/X **Closed Coat** (For Metal)shown below
- AO/X **Open Coat** (For Wood)add - 4 to part number (same price)
- AO/F **Paper belts** (For Metal / Wood)add - F to part number (multiply price x .62)



Std. Pkg.: 3/Box - 24-60 Grit
5/Box - 80 Grit & Finer

SIZE	GRIT / LIST EACH							
	60	80	100	120	150	180	220	240
25 x 48	72144	72145	72146	72147	72148	72149	72150	72151
	\$36.62	\$34.91	\$33.77	\$33.77	\$33.77	\$33.77	\$33.77	\$33.77
25 x 60	72155	72156	72157	72158	72159	72160	72161	72162
	\$42.12	\$39.98	\$38.57	\$38.57	\$38.57	\$38.57	\$38.57	\$38.57
36 x 75	72232	72233	72234	72235	72236	72237	72238	72239
	\$70.58	\$66.68	\$64.15	\$64.15	\$64.15	\$64.15	\$64.15	\$64.15
37 x 60	72284	72285	72286	72287	72288	72289	72290	72291
	\$62.34	\$59.15	\$57.09	\$57.09	\$57.09	\$57.09	\$57.09	\$57.09
37 x 75	72307	72308	72309	72310	72311	72312	72313	72314
	\$72.52	\$68.54	\$65.95	\$65.95	\$65.95	\$65.95	\$65.95	\$65.95
50 x 103	72395	72396	72397	72398	72399	72400	72401	72402
	\$123.68	\$116.26	\$111.47	\$111.47	\$111.47	\$111.47	\$111.47	\$111.47
52 x 75	72440	72441	72442	72443-08	72443	72444	72445	72446
	\$89.19	\$96.30	\$92.69	\$92.69	\$92.69	\$92.69	\$92.69	\$92.69
52 x 103	72451	72452	72453	72454	72455	72456	72457	72458
	\$128.62	\$107.29	\$115.92	\$115.92	\$115.92	\$115.92	\$115.92	\$115.92

Other sizes & grits are available. Normal delivery is approximately 5 work days.

AO/X STANDARD is the base price. Use these multipliers for other materials. **For "Wide" Belts ONLY!**

Grain	Desc. (Part # Extension)	Grade	Mult.	Grain	Desc. (Part # Extension)	Grade	Mult.
A/O	AO/X PC <u>Pref. Econ. Choice</u> (-PC)	XA167	0.93	A/O	AO/F Paper OC (-F)	B317	0.62
	AO/X Standard (Shown Above)	XA911,R145	1.00	S/C	SC/Y Standard W/P (-S)	S181	1.13
	AO/X Open Coat (-4)	K35	1.00	Z/A	ZA/Y Standard (-Z)	PZ628	1.46
	AO/Y Plus G.A. (-Y)	R192	1.10		ZA/Y Plus G.A. (-Z3)	R203	1.62
	AO/Y Premium Poly W/P (-PM)	P355	1.14	C/A	CA/Y Prem. Wood (-C4)	S945	1.65
	AO/Y Washable / OC (-4W)	W25	1.07		CA/Y Plus G.A. (-C3)	SK855	2.50

Grain abbreviations: AO = Aluminum Oxide, SC = Silicon Carbide, ZA = Zirconia Alumina, CA = Ceramic Alumina, G.A. = Grinding Aid.

Wide Belt Computation Table

To get the list price per belt for sizes not shown on previous pages:



1) Multiply the list price times the length of the belt (in inches).

2) Add the joining charge.

(Round up fractional lengths and intermediate widths to the next full size.)

3) Multiply the results by the appropriate material multiplier.

Std. Pkg.: 3/Box - 24-60 Grit
5/Box - 80 Grit & Finer

WIDTH INCHES	24	36	40	50	60	80	100 & F	JOINING CHARGE	WIDTH INCHES
13"	0.3369	0.2944	0.2733	0.2550	0.2384	0.2196	0.2075	7.6067	13"
14"	0.3627	0.3172	0.3061	0.2746	0.2567	0.2365	0.2234	8.1918	14"
15"	0.3887	0.3398	0.3154	0.2942	0.2750	0.2534	0.2394	8.7770	15"
16"	0.4146	0.3624	0.3365	0.3138	0.2934	0.2703	0.2554	9.3621	16"
18"	0.4665	0.4077	0.3785	0.3531	0.3300	0.3041	0.2873	10.5324	18"
19"	0.4923	0.4303	0.3996	0.3726	0.3484	0.3210	0.3033	11.1173	19"
20"	0.5182	0.4531	0.4205	0.3922	0.3667	0.3379	0.3193	11.7026	20"
22"	0.5701	0.4983	0.4626	0.4315	0.4033	0.3717	0.3512	12.8729	22"
23"	0.5960	0.5210	0.4836	0.4511	0.4217	0.3886	0.3672	13.4580	23"
24"	0.6218	0.5436	0.5047	0.4708	0.4400	0.4055	0.3831	14.0431	24"
25"	0.6478	0.5662	0.5257	0.4904	0.4583	0.4223	0.3991	14.6283	25"
26"	0.6737	0.5889	0.5468	0.5100	0.4767	0.4392	0.4151	15.2134	26"
28"	0.7256	0.6342	0.5887	0.5492	0.5133	0.4730	0.4470	16.3837	28"
30"	0.7773	0.6795	0.6308	0.5884	0.5500	0.5068	0.4788	17.5539	30"
32"	0.8292	0.7249	0.6729	0.6277	0.5866	0.5406	0.5108	18.7242	32"
33"	0.8551	0.7475	0.6940	0.6473	0.6051	0.5575	0.5267	19.3093	33"
34"	0.8811	0.7701	0.7150	0.6668	0.6234	0.5744	0.5427	19.8955	34"
35"	0.9070	0.7928	0.7360	0.6865	0.6417	0.5913	0.5587	20.4796	35"
36"	0.9328	0.8155	0.7571	0.7061	0.6600	0.6082	0.5746	21.0645	36"
37"	0.9587	0.8381	0.7780	0.7257	0.6784	0.6251	0.5906	21.6496	37"
38"	0.9847	0.8607	0.7990	0.7453	0.6967	0.6420	0.6066	22.2350	38"
40"	1.0365	0.9060	0.8411	0.7846	0.7334	0.6758	0.6385	23.4052	40"
42"	1.0883	0.9514	0.8832	0.8237	0.7700	0.7095	0.6705	24.5755	42"
44"	1.1402	0.9967	0.9253	0.8630	0.8067	0.7433	0.7024	25.7458	44"
46"	1.1919	1.0419	0.9673	0.9023	0.8433	0.7771	0.7343	26.9160	46"
48"	1.2438	1.0873	1.0093	0.9415	0.8800	0.8109	0.7663	28.0863	48"
50"	1.2956	1.1325	1.0514	0.9807	0.9166	0.8447	0.7981	29.2590	50"
52"	1.3474	1.1778	1.0934	1.0199	0.9533	0.8785	0.8300	30.4268	52"

Use the following multipliers for **Wide Belts Only!** (13" & wider)

Grain	Desc. (Part # Extension)	Grade	Mult.	Grain	Desc. (Part # Extension)	Grade	Mult.
A/O	AO/X PC <i>Pref. Econ. Choice</i> (-PC)	XA167	0.93	A/O	AO/F Paper OC (-F)	B317	0.62
	AO/X Standard (Shown Above)	XA911,R145	1.00	S/C	SC/Y Standard W/P (-S)	S181	1.13
	AO/X Open Coat (-4) (Shown Above)	K35	1.00	Z/A	ZA/Y Standard W/P (-Z)	PZ628	1.46
	AO/Y Plus G.A. (-Y)	R192	1.10		ZA/Y Plus G.A. (-Z3)	R203	1.62
	AO/Y Premium Poly W/P (-PM)	P355	1.14	C/A	CA/Y Premium Wood (-C4)	YS945	1.65
	AO/Y Washable / OC (-4W)	W25	1.07		CA/Y Plus G.A. (-C3)	SK855	2.50

Grain abbreviations: A/O = Aluminum Oxide, S/C = Silicon Carbide, Z/A = Zirconia Alumina, C/A = Ceramic Blend

Abbreviations: OC = Open Coat, W/P = Waterproof, G. A. = Grinding Aid

Quick-Lock Discs

FIRESTORM Ceramic Plus: Longest lasting grain. Grinding aid makes it excellent for high heat applications such as stainless steel, highly alloyed or hardened steels. Also works great on carbon steel.

Zirc Plus: Long lasting grain. Grinding aid makes it excellent for high heat applications such as stainless steel, highly alloyed or hardened steels. Also works great on carbon steel.

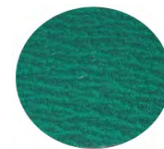
AO Premium: Premium AO grain on a heavy Y-Wt. polyester backing which adds durability & reduces edge wear. Good for general purpose applications.

Competitive Products:

3-M: 777F Regalite, 977F
 Norton: Blaze R980P
 Standard: Pinnacle Ceramic Ox.
 Merit: Ultra Ceramic Plus



3-M: 577F
 Norton: R821, R884
 Standard: Power Zirc
 Merit: Zirc Plus R801 / R203



3-M: 361F
 Standard: AO Pro, AO 2-Ply
 Merit: AO, Metal, Neon



TYPE "S" Equal To:
 Norton Speed-Lok TS®
 Standard Abr. SocAtt®
 Merit Powerlock Type II®
 3M Roloc TS®



TYPE "R" Equal To:
 Norton Speed-Lok TR®
 Standard Abr. Lockit®
 Merit Powerlock Type III®
 3M Roloc TR®

		FIRESTORM			ZIRC PLUS			AO PREMIUM		
DIA.	GRIT	TYPE "S"	TYPE "R"	LIST EA.	TYPE "S"	TYPE "R"	LIST EA.	TYPE "S"	TYPE "R"	LIST EA.
1-1/2"	36	32438	32638	\$ 0.71	319022	319122	\$ 0.56	31438	31638	\$ 0.45
	40	32439	32639	\$ 0.67	319023	319123	\$ 0.53	31439	31639	\$ 0.45
	50	32440	32640	\$ 0.65	319024	319124	\$ 0.53	31440	31640	\$ 0.44
	60	32441	32641	\$ 0.64	319025	319125	\$ 0.53	31441	31641	\$ 0.43
	80	32442	32642	\$ 0.60	319026	319126	\$ 0.53	31442	31642	\$ 0.42
	100	32443	32643	\$ 0.60	319027	319127	\$ 0.51	31443	31643	\$ 0.42
	120	32444	32644	\$ 0.60	319028	319128	\$ 0.51	31444	31644	\$ 0.42
2"	24	32449	32649	\$ 0.96	319031	319131	\$ 0.93	31449	31649	\$ 0.73
	36	32450	32650	\$ 0.91	319032	319132	\$ 0.84	31450	31650	\$ 0.68
	40	32451	32651	\$ 0.88	319033	319133	\$ 0.81	31451	31651	\$ 0.65
	50	32452	32652	\$ 0.86	319034	319134	\$ 0.78	31452	31652	\$ 0.63
	60	32453	32653	\$ 0.79	319035	319135	\$ 0.76	31453	31653	\$ 0.61
	80	32454	32654	\$ 0.77	319036	319136	\$ 0.73	31454	31654	\$ 0.59
	100	32455	32655	\$ 0.76	319037	319137	\$ 0.73	31455	31655	\$ 0.58
	120	32456	32656	\$ 0.76	319038	319138	\$ 0.73	31456	31656	\$ 0.58
	180	-	-	-	-	-	-	31458	31658	\$ 0.58
	240	-	-	-	-	-	-	31459	31659	\$ 0.58
320	-	-	-	-	-	-	31460	31660	\$ 0.58	
3"	24	32461	32661	\$ 1.37	319041	319141	\$ 1.20	31461	31661	\$ 0.95
	36	32462	32662	\$ 1.25	319042	319142	\$ 1.07	31462	31662	\$ 0.90
	40	32463	32663	\$ 1.17	319043	319143	\$ 1.03	31463	31663	\$ 0.86
	50	32464	32664	\$ 1.14	319044	319144	\$ 1.01	31464	31664	\$ 0.84
	60	32465	32665	\$ 1.09	319045	319145	\$ 0.99	31465	31665	\$ 0.82
	80	32466	32666	\$ 1.04	319046	319146	\$ 0.97	31466	31666	\$ 0.78
	100	32467	32667	\$ 1.04	319047	319147	\$ 0.93	31467	31667	\$ 0.77
	120	32468	32668	\$ 1.04	319048	319148	\$ 0.93	31468	31668	\$ 0.77
	180	-	-	-	-	-	-	31470	31670	\$ 0.77
	240	-	-	-	-	-	-	31471	31671	\$ 0.77
	320	-	-	-	-	-	-	31472	31672	\$ 0.77

1" & 4" are also available, minimums may apply.

Holders - page 19

All discs shown above have a durable 2-ply blue backing. Both Type "S" & "R" buttons are spin-welded plastic.

Firestorm are also available with an "Extra Stiff" 3-PLY backing.

Quick-Lock Discs: AO "EXTREME"

AO "EXTREME": New "Proprietary Blend" of AO & ceramic grain. Tests confirm they significantly outperform the competition's top AO products on most applications. Discs have an extra durable 2-ply red backing which reduces edge wear & snagging.



The Type "S" Button on our "Extreme" discs are made of metal.



DIA.	GRIT	TYPE "P"	TYPE "S"	TYPE "R"	LIST EACH
1" Std. Pkg. 100	36	31214-E	31414-E	31614-E	\$ 0.41
	40	31215-E	31415-E	31615-E	\$ 0.40
	50	31216-E	31416-E	31616-E	\$ 0.38
	60	31217-E	31417-E	31617-E	\$ 0.38
	80	31218-E	31418-E	31618-E	\$ 0.36
	100	31219-E	31419-E	31619-E	\$ 0.36
1-1/2" Std. Pkg. 100	120*	31220-E	31420-E	31620-E	\$ 0.36
	36	31238-E	31438-E	31638-E	\$ 0.52
	40	31239-E	31439-E	31639-E	\$ 0.50
	50	31240-E	31440-E	31640-E	\$ 0.50
	60	31241-E	31441-E	31641-E	\$ 0.48
	80	31242-E	31442-E	31642-E	\$ 0.48
2" Std. Pkg. 100	100	31243-E	31443-E	31643-E	\$ 0.48
	120*	31244-E	31444-E	31644-E	\$ 0.48
	36	31250-E	31450-E	31650-E	\$ 0.76
	40	31251-E	31451-E	31651-E	\$ 0.71
	50	31252-E	31452-E	31652-E	\$ 0.69
	60	31253-E	31453-E	31653-E	\$ 0.67
3" Std. Pkg. 50	80	31254-E	31454-E	31654-E	\$ 0.66
	100	31255-E	31455-E	31655-E	\$ 0.66
	120*	31256-E	31456-E	31656-E	\$ 0.66
	36	31262-E	31462-E	31662-E	\$ 1.02
	40	31263-E	31463-E	31663-E	\$ 1.00
	50	31264-E	31464-E	31664-E	\$ 0.97
3" Std. Pkg. 50	60	31265-E	31465-E	31665-E	\$ 0.95
	80	31266-E	31466-E	31666-E	\$ 0.90
	100	31267-E	31467-E	31667-E	\$ 0.90
	120*	31268-E	31468-E	31668-E	\$ 0.90



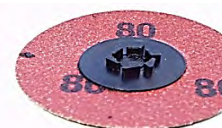
AO "EXTREME"



TYPE "S" - Metal Button



TYPE "R"



TYPE "P"

* Finer grits up to 320 are also available at the same price as 120 grit.

3/4" & 4" are also available.

Type "P" are non-stock, usually available in 3-5 days.

Quick-Lock Holders



Std. Pkg. 1

DIA.	SH.	HARD.	RPM	TYPE "P"	TYPE "S"	TYPE "R"	LIST EA.
1"	1/4"	Med	40,000	50234	50251	50257	\$ 8.03
1-1/2"	1/4"	Med	25,000	50237	50252	50258	\$ 9.15
2"	1/4"	Soft	20,000	-	50253SF	50259SF	\$ 9.22
		Med	25,000	50240	50253	50259	\$ 9.22
		Firm	30,000	-	50253FM	50259FM	\$ 9.22
3"	1/4"	Soft	12,000	-	50254SF	50260SF	\$ 11.74
		Med	20,000	50241	50254	50260	\$ 11.74
		Firm	20,000	-	50254FM	50260FM	\$ 11.74



Quick-Lock Discs: Compact Grain AO

Compact Grain: Each abrasive cluster consists of several pieces of abrasive grain that are bonded together to form a granulate. These granulates systematically wear down and create a very uniform finish through-out their useful life. They "look" very coarse, but will leave a smooth finish consistent with their grit marking. Discs have a durable 2-ply blue backing.



DIA.	GRIT	TYPE		LIST EACH
		"S"	"R"	
2"	80	33450	33650	\$ 0.84
	120	33452	33652	\$ 0.80
	180	33454	33654	\$ 0.80
	240	33456	33656	\$ 0.80
	320	33458	33658	\$ 0.80
3"	400	33459	33659	\$ 0.80
	80	33462	33662	\$ 1.12
	120	33464	33664	\$ 1.06
	180	33466	33666	\$ 1.06
	240	33468	33668	\$ 1.06
Std. Pkg. 50	320	33470	33670	\$ 1.06
	400	33471	33671	\$ 1.06



AO COMPACT GRAIN

Competitive Products:
 3-M: 359F Multicut
 VSM: KK718X Compact Grain

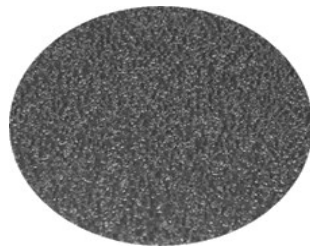


Silicon Carbide: This sharp grain provides fast cutting action on non-ferrous metals, such as aluminum & titanium. S/C grain can also be used where contamination from other grains is a concern. Discs have a durable 2-ply blue backing.

SILICON CARBIDE				
2"	36	31450-SC	31650-SC	\$ 0.74
	50	31452-SC	31652-SC	\$ 0.67
	60	31453-SC	31653-SC	\$ 0.64
	80	31454-SC	31654-SC	\$ 0.63
	100	31455-SC	31655-SC	\$ 0.63
	120	31456-SC	31656-SC	\$ 0.63
3"	180	31458-SC	31658-SC	\$ 0.63
	36	31462-SC	31662-SC	\$ 0.91
	50	31464-SC	31664-SC	\$ 0.86
	60	31465-SC	31665-SC	\$ 0.85
	80	31466-SC	31666-SC	\$ 0.84
	100	31467-SC	31667-SC	\$ 0.82
Std. Pkg. 50	120	31468-SC	31668-SC	\$ 0.82
	180	31470-SC	31670-SC	\$ 0.82

Contaminate Free!!

Can be used on aerospace materials without fear of contamination, as can occur with other abrasive grains.



Holders - page 19

Trim-Kut Grinding Discs

Trim-Kut discs feature tough grain securely bonded to a durable plastic backing. The worn edges are easily trimmed to a smaller diameter to expose fresh grain. **Now Available in ZIRC!**

DIA.	GRIT	AO	LIST EACH	ZIRC	LIST EACH
3"	36	31801	\$ 1.66	31801-ZS	\$ 2.26
	60	31802		31802-ZS	
	120	31803		31803-ZS	
25/Box					

Mandrel: 1/4" Round Shank included at no charge with each box. Other adapters available.



800.729.5702
www.preferredabrasives.com

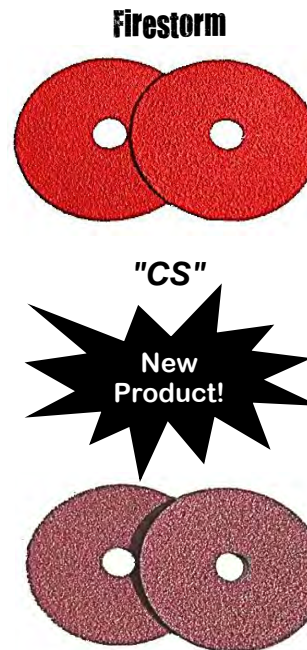
Part numbers in ***Bold Italic*** are stock

Resin Fiber Discs

FIRESTORM CERAMIC: Our NEWEST GENERATION ceramic grain. Works best on Medium to High pressure applications on heat sensitive materials such as stainless steel, titanium and other super alloys. *The "Top Sized" grinding aid also allows it to perform well on aluminum without loading!*

"CS" CERAMIC: Carbon Steel doesn't stand a chance against these ceramic alumina discs. The free cutting grain also excels on cast iron & fiberglass.

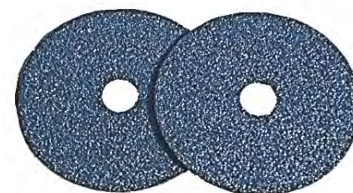
Std. Pkg. 25		FIRESTORM CERAMIC		"CS" CERAMIC	
SIZE DIA. x AH	GRIT	ITEM NO.	LIST EACH	ITEM NO.	LIST EACH
4-1/2" x 7/8 Max. RPM 13,000	24	37510	\$ 2.11	37310	\$ 1.57
	36	37511	\$ 1.94	37311	\$ 1.37
	50	37512	\$ 1.55	37312	\$ 1.21
	60	37513	\$ 1.46	37313	\$ 1.11
	80	37514	\$ 1.33	37314	\$ 0.95
5" x 7/8 Max. RPM 11,900	24	37518	\$ 2.27	37318	\$ 1.85
	36	37519	\$ 2.12	37319	\$ 1.61
	50	37520	\$ 1.71	37320	\$ 1.43
	60	37521	\$ 1.70	37321	\$ 1.29
	80	37522	\$ 1.52	37322	\$ 1.14
7" x 7/8 Max. RPM 8,600	24	37526	\$ 4.03	37326	\$ 2.98
	36	37527	\$ 3.60	37327	\$ 2.62
	50	37528	\$ 2.96	37328	\$ 2.45
	60	37529	\$ 2.75	37329	\$ 2.24
	80	37530	\$ 2.77	37330	\$ 1.94



ZIRC PREMIUM: Our "Zee Type" discs feature a "stiffer" fiber backing than most other discs. They are individually coated which enhances the grain retention on the edge. ZIRC is the better choice for aggressive grinding on most materials.

ZIRC "PC": Our general purpose Zirc discs provide the right combination of reliable quality with low price.

Std. Pkg. 25		ZIRC PREMIUM		ZIRC "PC"	
SIZE DIA. x AH	GRIT	ITEM NO.	LIST EACH	ITEM NO.	LIST EACH
4-1/2" x 7/8 Max. RPM 13,000	24	37202	\$ 1.56	37202-PC	\$ 1.08
	36	37203	\$ 1.42	37203-PC	\$ 1.02
	50	37204	\$ 1.34	37204-PC	\$ 0.97
	60	37205	\$ 1.28	37205-PC	\$ 0.92
	80	37206	\$ 1.21	37206-PC	\$ 0.88
5" x 7/8 Max. RPM 11,900	24	37208	\$ 1.66	37208-PC	\$ 1.21
	36	37209	\$ 1.60	37209-PC	\$ 1.12
	50	37210	\$ 1.45	37210-PC	\$ 1.02
	60	37211	\$ 1.38	37211-PC	\$ 1.00
	80	37212	\$ 1.32	37212-PC	\$ 0.95
7" x 7/8 Max. RPM 8,600	24	37214	\$ 2.55	37214-PC	\$ 1.82
	36	37215	\$ 2.49	37215-PC	\$ 1.70
	50	37216	\$ 2.42	37216-PC	\$ 1.65
	60	37217	\$ 2.25	37217-PC	\$ 1.58
	80	37218	\$ 2.12	37218-PC	\$ 1.50



All fiber discs are available with 5/8-11 Quick-Change Hub.

Add .58 to the list price.

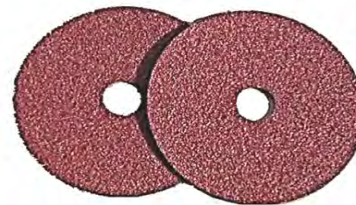
Back-up pads - page 22
Also available: 4" & 9" discs

Resin Fiber Discs: AO

AO PREMIUM: Our "A Type" premium discs feature a Blend of Premium AO grains to enhance cutting rates. They will outperform most competitors AO discs.

AO "PC": Our "C Type" general purpose AO discs feature a heavy fiber backing and a versatile AO grain. Our most economical disc - for use on most metals.

Std. Pkg. 25		AO PREMIUM		AO "PC"	
SIZE DIA. x AH	GRIT	ITEM NO.	LIST EACH	ITEM NO.	LIST EACH
4-1/2" x 7/8 Max. RPM 13,000	24	37110	\$ 0.97	37110-PC	\$ 0.73
	36	37111	\$ 0.90	37111-PC	\$ 0.69
	50	37112	\$ 0.84	37112-PC	\$ 0.66
	60	37113	\$ 0.80	37113-PC	\$ 0.65
	80	37114	\$ 0.76	37114-PC	\$ 0.62
	120	37116	\$ 0.76	37116-PC	\$ 0.62
5" x 7/8 Max. RPM 11,900	24	37118	\$ 1.04	37118-PC	\$ 0.73
	36	37119	\$ 0.98	37119-PC	\$ 0.73
	50	37120	\$ 0.90	37120-PC	\$ 0.71
	60	37121	\$ 0.86	37121-PC	\$ 0.66
	80	37122	\$ 0.81	37122-PC	\$ 0.65
	120	37124	\$ 0.81	37124-PC	\$ 0.65
7" x 7/8 Max. RPM 8,600	24	37126	\$ 1.60	37126-PC	\$ 1.29
	36	37127	\$ 1.54	37127-PC	\$ 1.24
	50	37128	\$ 1.50	37128-PC	\$ 1.20
	60	37129	\$ 1.40	37129-PC	\$ 1.15
	80	37130	\$ 1.32	37130-PC	\$ 1.11
	120	37132	\$ 1.32	37132-PC	\$ 1.11



All fiber discs are available with 5/8-11 Quick-Change Hub.

Add .58 to the list price.

Also available: 4" & 9" discs

Back-Up Pads

RUBBER "Spiral Vented" Std. Pkg. 1

DESCRIPTION	MAX RPM	ITEM NO.	LIST EACH
4-1/2" Med (R425R)	13,500	50401	\$ 17.74
5" Med (R500R)	13,000	50404	\$ 21.35
7" Med (R700R)	8,600	50410	\$ 32.26
7" Firm (H700R)	8,600	50411	\$ 32.26
9" Med (R900R)	6,600	50415	\$ 38.59
5/8-11 Center Nut (sold separately)		50418	\$ 7.56



Rubber: "Spiral Vented"
"Made in the USA"

Each pad threads onto the 5/8-11 tool shaft.

Center Nuts are *sold separately.*

HEAVY DUTY "Glass Fiber Reinforced"

DESCRIPTION	MAX RPM	ITEM NO.	LIST EACH
4-1/2" Firm w/nut	13,000	50436	\$ 16.49
5" Firm w/nut	12,000	50437	\$ 19.59
7" Firm w/nut	8,500	50438	\$ 29.78
5/8-11 Center Nut (Each HD pad includes a free center nut)			



Heavy Duty: "Glass Fiber Reinforced" with vented ribs.

Very RIGID & heat resistant. Ideal for grits 50 & coarser. New design includes vent holes and is completely flat.

Center Nuts are *included at no charge.*

GENERAL PURPOSE: Smooth Face

DESCRIPTION	MAX RPM	ITEM NO.	LIST EACH
4-1/2" MED. w/nut	13,000	50431	\$ 10.51
5" MED. w/nut	12,000	50432	\$ 12.87
7" MED. w/nut	8,500	50433	\$ 17.90
5/8-11 Center Nut (Each GP pad includes a free center nut)			



FASTRIM® Flap Discs

Plastic Backing Plate - (Trimmable)

FASTRIM® FIRESTORM®

Firestorm Ceramic Plus - BEST CHOICE for STAINLESS STEEL and hard-to-grind alloys. Works great on most other materials - including carbon steel.



FASTRIM® Discs are Trimmable and Rigid. *The plastic backing plate can easily be trimmed to allow more of the disc to be consumed. The flaps are tightly compressed and are placed on a 4-degree angle to optimize stock removal.*

FASTRIM® PREMIUM ZIRC

BEST CHOICE for CARBON STEEL. Works great on most other materials - including stainless steel.

Std. Pkg. 10		RIGID DENSITY			
		FIRESTORM®		PREM. ZIRC	
SIZE DIA. x ARBOR	GRIT	TYPE 4°	LIST EACH	TYPE 4°	LIST EACH
4-1/2" x 7/8 Max. RPM 13,300	40	10984T	\$ 10.32	10824T	\$ 7.98
	60	10985T	\$ 9.20	10825T	
	80	10986T	\$ 9.20	10826T	
4-1/2" x 5/8-11 Max. RPM 13,300	40	10974T	\$ 12.33	10814T	\$ 10.00
	60	10975T	\$ 11.20	10815T	
	80	10976T	\$ 11.20	10816T	



FIRESTORM® Ceramic Flap Discs

Fiberglass Backing Plate

FIRESTORM®: Ceramic Plus - BEST CHOICE for STAINLESS STEEL and hard-to-grind alloys. Works great on most other materials - including carbon steel.

Std. Pkg. 10		STANDARD DENSITY		
		FIRESTORM®		LIST EACH
SIZE DIA. x ARBOR	GRIT	TYPE 29	TYPE 27	
4-1/2" x 7/8 Max. RPM 13,300	36	10923AF	10923FF	\$ 7.12
	40	10924AF	10924FF	
	60	10925AF	10925FF	
	80	10926AF	10926FF	
4-1/2" x 5/8-11 Max. RPM 13,300	36	10913AF	10913FF	\$ 9.18
	40	10914AF	10914FF	
	60	10915AF	10915FF	
	80	10916AF	10916FF	
7" x 7/8 Max. RPM 8,600	36	10963AF	10963FF	\$ 15.50
	40	10964AF	10964FF	
	60	10965AF	10965FF	
	80	10966AF	10966FF	
7" x 5/8-11 Max. RPM 8,600	36	10953AF	10953FF	\$ 17.76
	40	10954AF	10954FF	
	60	10955AF	10955FF	
	80	10956AF	10956FF	



Type 29 (AF = angled face): "Built-in" angle for increased contact area & more aggressive stock removal.



Type 27 (FF = flat face): Better for blending & finishing applications.



Zirc Flap Discs

Fiberglass Backing Plate

PREMIUM ZIRC: BEST CHOICE for CARBON STEEL. Works great on most other materials, including stainless steel.

Standard-Density: discs are compact - making them more aggressive.



Hi-Density: discs have approximately 50% more material which provides a more "CUSHIONED" effect for grinding/finishing operations.



Std. Pkg. 10

SIZE		STANDARD DENSITY			HI-DENSITY		
DIA. x ARBOR	GRIT	TYPE 29	TYPE 27	LIST EACH	TYPE 29	TYPE 27	LIST EACH
4-1/2" x 7/8" Max. RPM 13,300	36	10823AF	10823FF	\$ 5.15	10623AF	10623FF	\$ 6.50
	40	10824AF	10824FF		10624AF	10624FF	
	60	10825AF	10825FF		10625AF	10625FF	
	80	10826AF	10826FF		10626AF	10626FF	
	120	10827AF	10827FF		10627AF	10627FF	
4-1/2" x 5/8-11 Max. RPM 13,300	36	10813AF	10813FF	\$ 5.15	10613AF	10613FF	\$ 8.45
	40	10814AF	10814FF		10614AF	10614FF	
	60	10815AF	10815FF		10615AF	10615FF	
	80	10816AF	10816FF		10616AF	10616FF	
	120	10817AF	10817FF		10617AF	10617FF	
6" x 7/8" Max. RPM 10,200	36	10848AF	10848FF	\$ 9.01	-	-	\$ 11.14
	40	10849AF	10849FF		10649AF	-	
	60	10850AF	10850FF		10650AF	-	
	80	10851AF	10851FF		10651AF	-	
6" x 5/8-11 Max. RPM 10,200	36	10838AF	10838FF	\$ 10.83	-	-	\$ 12.96
	40	10839AF	10839FF		10639AF	-	
	60	10840AF	10840FF		10640AF	-	
	80	10841AF	10841FF		10641AF	-	
7" x 7/8" Max. RPM 8,600	36	10863AF	10863FF	\$ 10.29	10663AF	10663FF	\$ 13.60
	40	10864AF	10864FF		10664AF	10664FF	
	60	10865AF	10865FF		10665AF	10665FF	
	80	10866AF	10866FF		10666AF	10666FF	
7" x 5/8-11 Max. RPM 8,600	36	10853AF	10853FF	\$ 13.02	10653AF	10653FF	\$ 16.32
	40	10854AF	10854FF		10654AF	10654FF	
	60	10855AF	10855FF		10655AF	10655FF	
	80	10856AF	10856FF		10656AF	10656FF	

Mini Zirc Flap Discs

These zirc flap discs are rigid & aggressive - great for rapid stock removal! Unlike some competitors, both Type S & R **will fit conventional quick-lock holders**. (Our Type "S" does not require a "special" steel mandrel).



Std. Pkg. 10 Type - 27 Flat

DIA.	TYPE	MAX RPM	GRIT / ITEM NO.					LIST EACH
			36	40	60	80	120	
2"	R	30,000	31718FD	31719FD	31721FD	31722FD	31724FD	\$ 3.49
	S		31535FD	31536FD	31538FD	31539FD	31541FD	
3"	R	20,000	31726FD	31727FD	31729FD	31730FD	31732FD	\$ 4.38
	S		31547FD	31548FD	31550FD	31551FD	31553FD	

Holders - page 19

Mounted Flap Wheels

Premium: These wheels are made from Premium Egyptian Cotton. They have a high flap count & yet are flexible. They do not throw excessive dust, like many other wheels. They are considered by many to be the finest flap wheels available.



PC: (Preferred's Economy Choice) - These wheels have a quality X-Wt. cotton backing (stiffer than our Premium wheels).

1/4" Shank

Std. Pkg. 10

SIZE		MAX RPM	PREMIUM GRIT / ITEM NO.							LIST EACH
DIA. x WIDTH			40	60	80	120	180	240	320	
3/4"	3/4"	35,000	11139-1	11139-3	11139-4	11139-5	11139-6	11139-7	11139-8	\$ 3.96
1"	5/8"	30,000	-	11156	11157	11159	11161	11163	11165	\$ 3.58
1"	1"	30,000	11167	11169	11170	11172	11174	11176	11178	\$ 3.29
1-1/2"	1/2"	30,000	11206	11208	11209	11211	11213	11215	11217	\$ 4.16
1-1/2"	1"	30,000	11232	11234	11235	11237	11239	11241	11243	\$ 4.49
2"	1/2"	25,000	11258	11260	11261	11263	11265	11267	11269	\$ 4.80
2"	3/4"	25,000	11271	11273	11274	11276	11278	11280	11282	\$ 5.20
2"	1"	25,000	11284	11286	11287	11289	11291	11293	11295	\$ 5.01
2"	1-1/2"	25,000	11297	11299	11300	11302	11304	11306	11308	\$ 6.40
2-1/2"	1"	23,000	11336	11338	11339	11341	11343	11345	11347	\$ 6.35
3"	1/2"	23,000	11362	11364	11365	11367	11369	11371	11373	\$ 5.56
3"	3/4"	23,000	11375	11377	11378	11380	11382	11384	11386	\$ 6.40
3"	1"	23,000	11388	11390	11391	11393	11395	11397	11399	\$ 6.19
3"	1-1/2"	20,000	11401	11403	11404	11406	11408	11410	11412	\$ 7.61
3"	2"	12,000	11414	11416	11417	11419	11421	11423	11425	\$ 9.91

"PC"

1"	5/8"	30,000	-	13156	13157	13159	-	-	-	\$ 2.47
1"	1"	30,000	13167	13169	13170	13172	13174	13176	13178	\$ 2.32
1-1/2"	1/2"	30,000	-	13208	13209	13211	13213	13215	13217	\$ 2.47
1-1/2"	1"	30,000	13232	13234	13235	13237	13239	13241	13243	\$ 2.81
2"	1/2"	25,000	13258	13260	13261	13263	13265	13267	13269	\$ 3.24
2"	1"	25,000	13284	13286	13287	13289	13291	13293	13295	\$ 3.43
2-1/2"	1"	23,000	-	13338	13339	13341	13343	13345	13347	\$ 4.06
3"	1/2"	23,000	-	13364	13365	13367	-	-	-	\$ 4.36
3"	1"	23,000	13388	13390	13391	13393	13395	13397	13399	\$ 4.41
3"	1-1/2"	20,000	-	13403	13404	13406	-	-	-	\$ 7.03


1/4-20 Shank



Std. Pkg. 10

SIZE		MAX RPM	PREMIUM GRIT / ITEM NO.							LIST EACH
DIA. x WIDTH			40	60	80	120	180	240	320	
1"	1"	30,000	12148	12150	12151	12153	12155	12157	12159	\$ 4.02
1-1/2"	1"	30,000	12187	12189	12190	12192	12194	12196	12198	\$ 4.91
2"	1"	25,000	12239	12241	12242	12244	12246	12248	12250	\$ 6.13
3"	1"	23,000	12343	12345	12346	12348	12350	12352	12354	\$ 7.58

"PC"

1"	1"	30,000	14167	14169	14170	14172	14174	-	-	\$ 2.55
1-1/2"	1"	30,000	14232	14234	14235	14237	-	-	-	\$ 3.09
2"	1"	25,000	14284	14286	14287	14289	14291	-	-	\$ 3.78
3"	1"	23,000	14388	14390	14391	14393	14395	-	-	\$ 4.85
Spin-on adapter			1/4-20						50931	\$ 2.27
6" OAL Spin-on adapter			1/4-20 x 6" Long						50933	\$ 7.95

Mounted Flap Wheels -Cont'd.

1/8" Shank
Prem. Mini's



Std. Pkg. 10

SIZE		MAX	PREMIUM GRIT / ITEM NO.						LIST
DIA. x WIDTH		RPM	60	80	120	180	240	320	EACH
3/8"	3/8"	40,000	11082-3	11082-4	11082-5	11082-6	11082-7	11082-8	\$ 4.85
5/8"	5/8"	40,000	11090-3	11090-4	11090-5	11090-6	11090-7	11090-8	\$ 4.59
5/8"	3/4"	40,000	11091-3	11091-4	11091-5	11091-6	11091-7	11091-8	\$ 4.59
3/4"	3/16"	35,000	11104-3	11104-4	11104-5	11104-6	11104-7	11104-8	\$ 3.92
3/4"	3/8"	35,000	11117-3	11117-4	11117-5	11117-6	11117-7	11117-8	\$ 3.82
3/4"	1/2"	35,000	11127-3	11127-4	11127-5	11127-6	11127-7	11127-8	\$ 3.82
3/4"	5/8"	35,000	11128-3	11128-4	11128-5	11128-6	11128-7	11128-8	\$ 3.82
3/4"	3/4"	35,000	11129-3	11129-4	11129-5	11129-6	11129-7	11129-8	\$ 4.76
1-3/16"	1/8"	30,000	11179-3	11179-4	11179-5	11179-6	11179-7	11179-8	\$ 4.22
1-3/16"	3/16"	30,000	11182-3	11182-4	11182-5	11182-6	11182-7	11182-8	\$ 3.94
1-3/16"	3/8"	30,000	11195-3	11195-4	11195-5	11195-6	11195-7	11195-8	\$ 3.96

Bore Polishers

AO/X Resin Bond

Bore Polishers have a spring-action design so they automatically adjust to the inside diameter on every pass. Perfectly balanced & self centering, they provide fast cleaning and polishing of interior cylinders.

BP-300



BP-400



BP-800



Std. Pkg. 10

STYLE #	I.D. RANGE	GRIT	ITEM NO.	LIST EACH
BP-305	3/4 to 1"	60	12804	\$ 5.54
		80	12805	
		120	12807	
BP-405	1 to 1-1/2"	60	12815	\$ 10.28
		80	12816	
		120	12818	
BP-410	1-1/2 to 2"	60	12826	\$ 10.77
		80	12827	
		120	12829	
BP-415	2-1/8 to 2-1/2"	60	12837	\$ 11.32
		80	12838	
		120	12840	
BP-420	2-1/2 to 3"	60	12848	\$ 11.82
		80	12849	
		120	12851	
BP-425	3-1/8 to 4"	60	12859	\$ 12.18
		80	12860	
		120	12862	
BP-810	2 to 2-1/2"	60	12870	\$ 19.31
		80	12871	
		120	12873	

Zirconia is also available.

STYLE #	I.D. RANGE	GRIT	ITEM NO.	LIST EACH
BP-815	2-5/8 to 3"	60	12881	\$ 20.18
		80	12882	
		120	12884	
BP-820	3-1/8 to 4"	60	12892	\$ 21.32
		80	12893	
		120	12895	
BP-825	4-1/4 to 5-1/4"	60	12903	\$ 22.40
		80	12904	
		120	12906	
BP-830	5-1/4 to 5-7/8"	60	12914	\$ 23.48
		80	12915	
		120	12917	

Std. Pkg. 1

MANDREL #	THRD.	ITEM NO.	LIST EACH
BPM-3	5/16-18	12950	\$ 7.66
BPM-4	1/2-20	12951	\$ 9.94
BPM-8	1/4-20	12952	\$ 2.79
4" Extension	1/4-20	12953	\$ 4.87
6" Extension	1/4-20	12954	\$ 5.19
8" Extension	1/4-20	12955	\$ 6.21

Unmounted Flap Wheels

Premium Egyptian Cotton (FLEXIBLE)

SIZE DIA. x WIDTH x AH	GRIT	ITEM NO.	LIST EACH
6 x 1/2 x 1 Std. Pkg. 5 Max RPM 5,700	40	10231	\$ 23.52
	60	10233	\$ 25.31
	80	10234	\$ 26.39
	120	10236	\$ 26.39
6 x 1 x 1 Std. Pkg. 5 Max RPM 5,700	40	10241	\$ 20.71
	50	10242	\$ 22.50
	60	10243	\$ 21.45
	80	10244	\$ 22.64
6 x 1-1/2 x 1 Std. Pkg. 5 Max RPM 5,700	120	10246	\$ 24.51
	40	10261	\$ 23.14
	60	10263	\$ 24.54
	80	10264	\$ 25.31
6 x 2 x 1 Std. Pkg. 5 Max RPM 5,700	120	10266	\$ 27.46
	40	10281	\$ 34.71
	60	10283	\$ 35.78
	80	10284	\$ 37.75
8 x 1 x 1 Std. Pkg. 3 Max RPM 4,300	120	10286	\$ 41.12
	60	10343	\$ 36.22
	80	10344	\$ 36.70
	120	10346	\$ 38.08

Other sizes and grits are available.



Unmounted flap wheels are an excellent choice for applying a "grain effect" or for general polishing & deburring.

Arbor Reducer Bushings

Std. Pkg. 1 Pair



SIZE	ITEM NO.	LIST / PAIR
1" to 1/2"	10502	\$ 2.27
1" to 5/8"	10503	\$ 2.27
1" to 3/4"	10504	\$ 2.27

Mini Hook & Loop Discs

DIA.	GRIT	GOLD PAPER	BLUE FILM	LIST EACH
		ITEM NO.	ITEM NO.	
2" Std. Pkg. 100	80	34933-06	35062-06	\$ 0.30
	120	34933-08	35062-08	\$ 0.27
	180	34933-10	35062-10	\$ 0.27
	240	34933-12	35062-12	\$ 0.27
	320	34933-14	35062-14	\$ 0.27
	400	34933-15	35062-15	\$ 0.27
	600	34933-17	35062-17	\$ 0.34
800**	-	35062-18	\$ 0.34	
3" Std. Pkg. 100	80	349331-06	35063-06	\$ 0.35
	120	349331-08	35063-08	\$ 0.32
	180	349331-10	35063-10	\$ 0.32
	240	349331-12	35063-12	\$ 0.32
	320	349331-14	35063-14	\$ 0.32
	400	349331-15	35063-15	\$ 0.32
	600	349331-17	35063-17	\$ 0.41
800**	-	35063-18	\$ 0.41	

** Blue Film 800, 1000, 1200, 1500, 2000 are all available at the same price.



Mini H&L Pads

DIA. x SHANK	FOAM DENS.	ITEM NO.	LIST EA
2" x 1/4 6,000 Max RPM	3/4" Soft	53902-F	\$ 11.15
3" x 1/4 6,000 Max RPM	3/4" Soft	53903-F	\$ 11.92
3" x 5/16-24 12,000 Max RPM	3/8" Firm	53903-2	\$ 18.50

DA Discs

Gold Paper: Premium AO grain, resin bonded to a high quality latex backing (B-wt.). The stearate coating and open grain structure helps prevents loading. Heavy E-wt. paper (grits 36-60) is also available in PSA or H & L.

Blue Film: Precision-graded AO grain, resin-bonded to a flexible and durable film backing. Provides a fast cut with uniform finish. Non-loading, for use on metal, plastic, fiberglass, wood, or solid-surface composites.

GOLD PAPER						
DIA.	GRIT	PSA DISC ROLLS		H & L DISCS		
		ITEM NO.	LIST EACH	ITEM NO.	LIST EACH	
5"	60	34967-05	\$ 34.77	34935-05	\$ 0.46	
	80	34967-06	\$ 30.22	34935-06	\$ 0.45	
	100	34967-07	\$ 25.89	34935-07	\$ 0.40	
	PSA Disc Rolls Std. Pkg. 1 Roll (100 discs/roll)	120	34967-08	\$ 25.89	34935-08	\$ 0.40
		180	34967-10	\$ 25.89	34935-10	\$ 0.40
		220	34967-11	\$ 25.89	34935-11	\$ 0.40
	H & L Discs Std. Pkg. 50	240	34967-12	\$ 25.89	34935-12	\$ 0.40
		320	34967-14	\$ 25.89	34935-14	\$ 0.40
		400	34967-15	\$ 25.89	34935-15	\$ 0.40
		600	34967-17	\$ 25.89	34935-17	\$ 0.40
6"		60	34972	\$ 47.01	34936-05	\$ 0.64
	80	34973	\$ 40.87	34936-06	\$ 0.61	
	100	34974	\$ 34.63	34936-07	\$ 0.52	
	PSA Disc Rolls Std. Pkg. 1 Roll (100 discs/roll)	120	34975	\$ 34.63	34936-08	\$ 0.52
		180	34977	\$ 34.63	34936-10	\$ 0.52
		220	34978	\$ 34.63	34936-11	\$ 0.52
	H & L Discs Std. Pkg. 50	240	34979	\$ 34.63	34936-12	\$ 0.52
		320	34981	\$ 34.63	34936-14	\$ 0.52
		400	34982	\$ 34.63	34936-15	\$ 0.52
		600	34983	\$ 34.63	34936-17	\$ 0.52
BLUE FILM						
DIA.	GRIT	PSA DISCS		H & L DISCS		
		ITEM NO.	LIST EACH	ITEM NO.	LIST EACH	
5"	80	35055-06	\$ 0.46	35065-06	\$ 0.49	
	100	35055-07	\$ 0.43	35065-07	\$ 0.46	
	120	35055-08	\$ 0.43	35065-08	\$ 0.46	
	PSA Discs Std. Pkg. 100	180	35055-10	\$ 0.43	35065-10	\$ 0.46
		220	35055-11	\$ 0.43	35065-11	\$ 0.46
		240	35055-12	\$ 0.43	35065-12	\$ 0.46
	H & L Discs Std. Pkg. 50	320	35055-14	\$ 0.43	35065-14	\$ 0.46
		400	35055-15	\$ 0.43	35065-15	\$ 0.46
		600	35055-17	\$ 0.48	35065-17	\$ 0.61
		800	35055-18	\$ 0.48	35065-18	\$ 0.61
1000		35055-19	\$ 0.48	35065-19	\$ 0.61	
1200		35055-20	\$ 0.48	35065-20	\$ 0.61	
1500		35055-21	\$ 0.48	35065-21	\$ 0.61	
2000		35055-22	\$ 0.48	35065-22	\$ 0.61	
6"	80	35056-06	\$ 0.62	35066-06	\$ 0.66	
	100	35056-07	\$ 0.59	35066-07	\$ 0.59	
	120	35056-08	\$ 0.59	35066-08	\$ 0.59	
	PSA Discs Std. Pkg. 100	180	35056-10	\$ 0.59	35066-10	\$ 0.59
		220	35056-11	\$ 0.59	35066-11	\$ 0.59
		240	35056-12	\$ 0.59	35066-12	\$ 0.59
	H & L Discs Std. Pkg. 50	320	35056-14	\$ 0.59	35066-14	\$ 0.59
		400	35056-15	\$ 0.59	35066-15	\$ 0.59
		600	35056-17	\$ 0.73	35066-17	\$ 0.93
		800	35056-18	\$ 0.73	35066-18	\$ 0.93
1000		35056-19	\$ 0.73	35066-19	\$ 0.93	
1200		35056-20	\$ 0.73	35066-20	\$ 0.93	
1500		35056-21	\$ 0.73	35066-21	\$ 0.93	
2000		35056-22	\$ 0.73	35066-22	\$ 0.93	

Also available with vacuum holes, ADD 10%.
DA holders - page 29

GOLD PAPER
Competitive Products:
3-M: 216U, 236U
Norton: A-290, PB273



BLUE FILM
Competitive Products:
3-M: 366L
3M: 255L, 360L
Norton: Q130
Sun: Q711T, L312T



Advantages of Film over Gold paper:

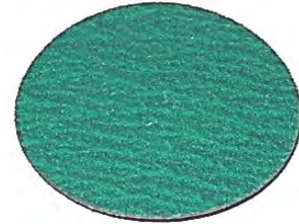
- Longer lasting
- Flexible backing is waterproof & tear resistant
- Stronger grain adhesion
- Uniform grain size eliminates stray scratches

Zirc PSA Discs

Zirc Plus: Long lasting, self-sharpening grain with a grinding aid. Best choice for tough applications & heavy stock removal, but works great on most materials. Grinding Aid helps reduce loading & heat.

"PC" Zirc: (Preferred's Economy Choice) - Blue Zirc without grinding aid. Good choice for mild / carbon steel.

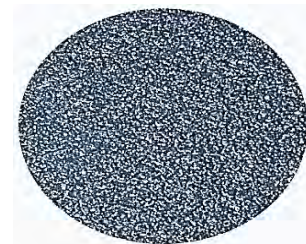
DIA.	GRIT	ZIRC PLUS		"PC" ZIRC	
		ITEM NO.	LIST EACH	ITEM NO.	LIST EACH
5"	36	30438-Z3	\$ 1.67	30438-Z	\$ 1.34
	40	30439-Z3	\$ 1.60	30439-Z	\$ 1.29
	50	30440-Z3	\$ 1.48	30440-Z	\$ 1.20
	60	30441-Z3	\$ 1.41	30441-Z	\$ 1.14
	80	30442-Z3	\$ 1.33	30442-Z	\$ 1.10
	100	30443-Z3	\$ 1.27	30443-Z	\$ 1.07
	120	30444-Z3	\$ 1.27	30444-Z	\$ 1.07
6"	180	-	-	30446-Z	\$ 1.07
	36	30450-Z3	\$ 2.45	30450-Z	\$ 1.94
	40	30451-Z3	\$ 2.38	30451-Z	\$ 1.89
	50	30452-Z3	\$ 2.20	30452-Z	\$ 1.74
	60	30453-Z3	\$ 2.04	30453-Z	\$ 1.60
	80	30454-Z3	\$ 1.93	30454-Z	\$ 1.56
	100	30455-Z3	\$ 1.81	30455-Z	\$ 1.50
12"	120	30456-Z3	\$ 1.81	30456-Z	\$ 1.50
	180	-	-	30458-Z	\$ 1.50
	36	30510-Z3	\$ 10.30	30510-Z	\$ 8.36
	40	30511-Z3	\$ 9.80	30511-Z	\$ 7.94
	50	30512-Z3	\$ 9.22	30512-Z	\$ 7.46
	60	30513-Z3	\$ 8.59	30513-Z	\$ 6.95
	80	30514-Z3	\$ 8.12	30514-Z	\$ 6.71
20"	100	30515-Z3	\$ 7.51	30515-Z	\$ 6.45
	120	30516-Z3	\$ 7.51	30516-Z	\$ 6.45
	180	-	-	30518-Z	\$ 6.45
	36	30558-Z3	\$ 29.67	30558-Z	\$ 23.81
	40	30559-Z3	\$ 28.75	30559-Z	\$ 22.58
24"	50	30560-Z3	\$ 26.99	30560-Z	\$ 21.65
	60	30561-Z3	\$ 24.97	30561-Z	\$ 20.03
	80	30562-Z3	\$ 23.58	30562-Z	\$ 18.91
	36	30570-Z3	\$ 42.76	30570-Z	\$ 35.36
Std. Pkg. 50	40	30571-Z3	\$ 40.10	30571-Z	\$ 33.16
	50	30572-Z3	\$ 37.66	30572-Z	\$ 31.15
	60	30573-Z3	\$ 35.33	30573-Z	\$ 29.22



Our "Hot Melt" PSA glue allows the used disc to be removed without leaving an residue behind.



"PC" Blue Zirc



Other sizes available.

Cloth PSA Disc Holders & DA Pads

Std. Pkg. 1

DIA. X SH.	MAX RPM	ITEM NO.	LIST EACH
1" x 1/4	22,000	50206	\$ 4.31
1-1/2" x 1/4	22,000	50208	\$ 6.19
2" x 1/4	22,000	50209	\$ 6.94
3" x 1.4	12,000	50210	\$ 7.93



DIA.	MAX RPM	FLEX	PSA		H & L	
			ITEM NO.	LIST EA	ITEM NO.	LIST EA
5"	12,000	Soft	50215	\$ 21.70	53905	\$ 23.77
5/16-24	14,000	Firm	50217	\$ 20.29	53905F	\$ 21.67
6"	10,000	Soft	50216	\$ 23.34	53906	\$ 27.89
5/16-24	12,000	Firm	50218	\$ 21.43	53906F	\$ 26.07



Also available with vacuum holes. Call for price & delivery.

800.729.5702
www.preferredabrasives.com

Part numbers in **Bold Italic** are stock

Cloth PSA Discs: AO Premium

AO/X PREMIUM: Premium AO cloth discs combined with our "Hot Melt" PSA glue. These discs won't leave any residue when removed from backing pad or metal plate.



DIA.	GRIT	ITEM NO.	LIST EACH
1" Std. Pkg. 100	60	30381-8	\$ 0.24
	80	30382-8	\$ 0.24
	100	30383-8	\$ 0.24
	120	30384-8	\$ 0.24
	180	30386-8	\$ 0.24
1-1/2" Std. Pkg. 100	50	30392-8	\$ 0.25
	60	30393-8	\$ 0.25
	80	30394-8	\$ 0.25
	100	30395-8	\$ 0.25
	120	30396-8	\$ 0.25
2" Std. Pkg. 100	180	30398-8	\$ 0.25
	36	30402-8	\$ 0.42
	40	30403-8	\$ 0.39
	50	30404-8	\$ 0.36
	60	30405-8	\$ 0.36
3" Std. Pkg. 50	80	30406-8	\$ 0.35
	100	30407-8	\$ 0.34
	120	30408-8	\$ 0.34
	180	30410-8	\$ 0.34
	36	30414-8	\$ 0.52
5" Std. Pkg. 50	40	30415-8	\$ 0.50
	50	30416-8	\$ 0.48
	60	30417-8	\$ 0.46
	80	30418-8	\$ 0.42
	100	30419-8	\$ 0.41
6" Std. Pkg. 50	120	30420-8	\$ 0.41
	180	30422-8	\$ 0.41
	36	30438-8	\$ 0.95
	40	30439-8	\$ 0.90
	50	30440-8	\$ 0.85
Available with Pull Tabs, on request.	60	30441-8	\$ 0.80
	80	30442-8	\$ 0.77
	100	30443-8	\$ 0.73
	120	30444-8	\$ 0.73
	180	30446-8	\$ 0.73
8" Std. Pkg. 50	240	30447-8	\$ 0.73
	36	30450-8	\$ 1.40
	40	30451-8	\$ 1.34
	50	30452-8	\$ 1.25
	60	30453-8	\$ 1.17
Available with Pull Tabs, on request.	80	30454-8	\$ 1.11
	100	30455-8	\$ 1.05
	120	30456-8	\$ 1.05
	180	30458-8	\$ 1.05
	240	30459-8	\$ 1.05
36" Std. Pkg. 5	36	30474-8	\$ 2.45
	40	30475-8	\$ 2.33
	50	30476-8	\$ 2.23
	60	30477-8	\$ 2.12
	80	30478-8	\$ 2.02
36" Std. Pkg. 5	120	30480-8	\$ 1.92

DIA.	GRIT	ITEM NO.	LIST EACH
9" Std. Pkg. 25	36	30486-8	\$ 3.49
	40	30487-8	\$ 3.29
	50	30488-8	\$ 3.10
	60	30489-8	\$ 2.93
	80	30490-8	\$ 2.77
10" Std. Pkg. 25	100	30491-8	\$ 2.61
	120	30492-8	\$ 2.61
	36	30498-8	\$ 4.32
	40	30499-8	\$ 4.07
	50	30500-8	\$ 3.84
12" Std. Pkg. 25	60	30501-8	\$ 3.62
	80	30502-8	\$ 3.42
	100	30503-8	\$ 3.22
	120	30504-8	\$ 3.22
	36	30510-8	\$ 5.59
15" Std. Pkg. 25	40	30511-8	\$ 5.27
	50	30512-8	\$ 4.97
	60	30513-8	\$ 4.69
	80	30514-8	\$ 4.43
	100	30515-8	\$ 4.18
16" Std. Pkg. 25	120	30516-8	\$ 4.18
	36	30522-8	\$ 10.14
	40	30523-8	\$ 9.56
	50	30524-8	\$ 9.02
	60	30525-8	\$ 9.01
20" Std. Pkg. 10	80	30526-8	\$ 8.03
	36	30534-8	\$ 11.64
	40	30535-8	\$ 10.98
	50	30536-8	\$ 10.36
	60	30537-8	\$ 9.77
24" Std. Pkg. 10	80	30538-8	\$ 9.22
	36	30558-8	\$ 17.93
	40	30559-8	\$ 16.92
	50	30560-8	\$ 15.96
	60	30561-8	\$ 15.09
30" Std. Pkg. 5	80	30562-8	\$ 14.21
	36	30570-8	\$ 25.62
	40	30571-8	\$ 23.95
	50	30572-8	\$ 22.51
	60	30573-8	\$ 21.18
36" Std. Pkg. 5	80	30574-8	\$ 19.71
	36	30582-8	\$ 38.93
	40	30583-8	\$ 36.32
	50	30584-8	\$ 33.38
	60	30585-8	\$ 32.05
36" Std. Pkg. 5	80	30586-8	\$ 29.75
	36	30594-8	\$ 64.61
	40	30595-8	\$ 60.17
	50	30596-8	\$ 56.14
	60	30597-8	\$ 53.73
36" Std. Pkg. 5	80	30598-8	\$ 47.15

24 to 320 grit available on all sizes.

Holdings - page 29

Straight Cartridge Rolls

AO (R228) or Ceramic (SK840T)

Silicon Carbide, Zirc and AO Glue Bond quoted on request.



Std. Pkg. 100

SIZE DIA. x LENGTH x AH	GRIT	ITEM NO.	LIST EACH
3/16 x 1 x 3/32 Max RPM 26,000 Use A-2B or A-2E Mandrel	80	21136	\$ 0.25
	100	21137	\$ 0.25
	120	21138	\$ 0.25
	180	21140	\$ 0.26
1/4 x 1 x 1/8 Max RPM 26,000 Use A-4 or A-8 Mandrel	60	21159	\$ 0.24
	60-CER	21159-C	\$ 0.44
	80	21160	\$ 0.25
	80-CER	21160-C	\$ 0.44
	100	21161	\$ 0.25
	120	21162	\$ 0.25
	120-CER	21162-C	\$ 0.44
	320	21166	\$ 0.26
1/4 x 1-1/2 x 1/8 Max RPM 26,000 Use A-5 or A-9 Mandrel	60	21167	\$ 0.29
	60-CER	21167-C	\$ 0.51
	80	21168	\$ 0.30
	80-CER	21168-C	\$ 0.52
	100	21169	\$ 0.30
	120	21170	\$ 0.30
	120-CER	21170-C	\$ 0.52
	320	21174	\$ 0.31
5/16 x 1 x 1/8 Max RPM 26,000 Use A-4 or A-8 Mandrel	60	21211	\$ 0.27
	80	21212	\$ 0.27
	120	21214	\$ 0.27
	120	21214	\$ 0.27
5/16 x 1-1/2 x 1/8 Max RPM 26,000 Use A-5 or A-9 Mandrel	60	21223	\$ 0.36
	80	21224	\$ 0.36
	120	21226	\$ 0.36
3/8 x 1 x 1/8 Max RPM 26,000 Use A-4 or A-8 Mandrel	50	21270	\$ 0.27
	60	21271	\$ 0.27
	60-CER	21271-C	\$ 0.48
	80	21272	\$ 0.27
	80-CER	21272-C	\$ 0.48
	100	21272	\$ 0.27
	120	21274	\$ 0.27
	120-CER	21274-C	\$ 0.48
3/8 x 1-1/2 x 1/8 Max RPM 26,000 Use A-5 or A-9 Mandrel	180	21276	\$ 0.28
	240	21277	\$ 0.28
	50	21282	\$ 0.33
	60	21283	\$ 0.33
	60-CER	21283-C	\$ 0.58
	80	21284	\$ 0.34
	80-CER	21284-C	\$ 0.59
	100	21285	\$ 0.34
3/8 x 2 x 1/8 Max RPM 26,000 Use A-10 Mandrel	120	21286	\$ 0.34
	120-CER	21286-C	\$ 0.59
	180	21288	\$ 0.36
	240	21289	\$ 0.36
	320	21290	\$ 0.36

SIZE DIA. x LENGTH x AH	GRIT	ITEM NO.	LIST EACH
1/2 x 1 x 1/8 Max RPM 26,000 Use A-4 or A-8 Mandrel	60	21331	\$ 0.31
	60-CER	21331-C	\$ 0.54
	80	21332	\$ 0.31
	80-CER	21332-C	\$ 0.55
	100	21333	\$ 0.31
	120	21334	\$ 0.31
	120-CER	21334-C	\$ 0.55
	320	21338	\$ 0.33
1/2 x 1-1/2 x 1/8 Max RPM 26,000 Use A-5 or A-9 Mandrel	36	21340	\$ 0.42
	40	21341	\$ 0.42
	50	21342	\$ 0.42
	60	21343	\$ 0.42
	60-CER	21343-C	\$ 0.73
	80	21344	\$ 0.43
	80-CER	21344-C	\$ 0.75
	100	21345	\$ 0.43
	120	21346	\$ 0.43
	120-CER	21346-C	\$ 0.75
1/2 x 2 x 1/8 Max RPM 26,000 Use A-10 Mandrel	180	21348	\$ 0.45
	240	21349	\$ 0.45
	320	21350	\$ 0.45
	50	21354	\$ 0.54
5/8 x 1 x 3/16 Max RPM 18,000 Use A-15 Mandrel	60	21355	\$ 0.54
	80	21356	\$ 0.55
	120	21358	\$ 0.55
5/8 x 1-1/2 x 3/16 Max RPM 18,000 Use A-16 Mandrel	60	21439	\$ 0.47
	80	21440	\$ 0.48
	120	21442	\$ 0.48
3/4 x 1 x 3/16 Max RPM 18,000 Use A-15 Mandrel	60	21451	\$ 0.60
	80	21452	\$ 0.62
	120	21454	\$ 0.62
3/4 x 1 x 1/4 Max RPM 18,000 Use A-20 Mandrel	60	21523	\$ 0.55
	80	21524	\$ 0.56
	120	21526	\$ 0.56
3/4 x 1-1/2 x 3/16 Max RPM 18,000 Use A-16 Mandrel	60	21526-AH	\$ 0.56
	80	21524-AH	\$ 0.56
	120	21526-AH	\$ 0.56
3/4 x 1-1/2 x 1/4 Max RPM 18,000 Use A-21 Mandrel	60	21535	\$ 0.69
	80	21536	\$ 0.70
	120	21538	\$ 0.70
3/4 x 2 x 1/4 Max RPM 18,000 Use A-22 Mandrel	60	21535-AH	\$ 0.69
	80	21536-AH	\$ 0.70
	120	21538-AH	\$ 0.70
1 x 1-1/2 x 1/4 Max RPM 15,000 Use A-21 Mandrel	60	21547-AH	\$ 0.93
	80	21548-AH	\$ 0.95
	120	21550-AH	\$ 0.95
1 x 2 x 1/4 Max RPM 15,000 Use A-22 Mandrel	36	21796	\$ 1.22
	60	21799	\$ 1.22
	80	21800	\$ 1.32
1 x 2 x 1/4 Max RPM 15,000 Use A-22 Mandrel	36	21916	\$ 1.54
	60	21919	\$ 1.54
	80	21920	\$ 1.61

Other sizes, arbor holes & grits available.

Mandrels - page 32

Full Taper Cartridge Rolls

AO (R228) or Ceramic (SK840T)

Silicon Carbide, Zirc and AO Glue Bond quoted on request.



Std. Pkg. 100

SIZE DIA. x LENGTH x AH	GRIT	ITEM NO.	LIST EACH
3/8 x 1 x 1/8 Max RPM 26,000 Use A-4 or A-8 Mandrel	60	23105	\$ 0.54
	60-CER	23105-C	\$ 0.94
	80	23106	\$ 0.55
	80-CER	23106-C	\$ 0.97
	120	23108	\$ 0.55
	120-CER	23108-C	\$ 0.97
3/8 x 1-1/2 x 1/8 Max RPM 26,000 Use A-5 or A-9 Mandrel	60	23285	\$ 0.58
	60-CER	23285-C	\$ 1.01
	80	23286	\$ 0.59
	80-CER	23286-C	\$ 1.05
	120	23288	\$ 0.59
	120-CER	23288-C	\$ 1.05
1/2 x 1 x 1/8 Max RPM 26,000 Use A-4 or A-8 Mandrel	60	23141	\$ 0.57
	60-CER	23141-C	\$ 0.99
	80	23142	\$ 0.58
	80-CER	23142-C	\$ 1.01
	120	23144	\$ 0.58
	120-CER	23141-C	\$ 1.01
	180	23146	\$ 0.61

SIZE DIA. x LENGTH x AH	GRIT	ITEM NO.	LIST EACH
1/2 x 1-1/2 x 1/8 Max RPM 26,000 Use A-5 or A-9 Mandrel	60	23321	\$ 0.63
	60-CER	23321-C	\$ 1.11
	80	23322	\$ 0.64
	80-CER	23322-C	\$ 1.13
	120	23324	\$ 0.64
	120-CER	23324-C	\$ 1.13
	180	23326	\$ 0.68
1/2 x 2 x 1/8 Max RPM 26,000 Use A-10 Mandrel	60	23465	\$ 0.70
	80	23466	\$ 0.72
	120	23468	\$ 0.72
5/8 x 1-1/2 x 1/8 Max RPM 18,000 Use A-5 or A-9 Mandrel	60	23357	\$ 0.82
	80	23358	\$ 0.84
	120	23360	\$ 0.84
3/4 x 1-1/2 x 3/16 Max RPM 18,000 Use A-16 Mandrel	60	23405	\$ 0.91
	80	23406	\$ 0.92
	120	23408	\$ 0.92
1 x 1-1/2 x 3/16 Max RPM 18,000 Use A-16 Mandrel	60	23621	\$ 1.31
	80	23622	\$ 1.31
	120	23624	\$ 1.40

Other sizes, arbor holes & grits available.

Cartridge Roll Mandrels

Std. Pkg. 1

TOOL NO.	PILOT DIA.	PILOT LENGTH	SHANK DIA.	OAL	ITEM NO.	LIST EACH
A-2B	3/32	3/4	1/8	3	50102-3	\$ 5.79
A-2E	3/32	3/4	1/4	3	50102-2	\$ 5.79
A-4	1/8	3/4	1/8	2-3/4	50104	\$ 3.36
A-5	1/8	1	1/8	3	50105	\$ 3.36
A-8	1/8	3/4	1/4	2-1/2	50108	\$ 3.36
A-8-6	1/8	3/4	1/4	6	50108-6	\$ 5.25
A-9	1/8	1	1/4	2-3/4	50109	\$ 3.26
A-9-6	1/8	1	1/4	6	50109-6	\$ 5.25
A-10	1/8	1-1/2	1/4	3-1/4	50110	\$ 3.36
A-15	3/16	3/4	1/4	2-1/2	50115	\$ 3.36
A-16	3/16	1	1/4	3	50116	\$ 3.36
A-16-6	3/16	1	1/4	6	50116-6	\$ 10.74
A-17	3/16	1-1/2	1/4	3-1/2	50117	\$ 3.36
A-18	3/16	2	1/4	4	50118	\$ 4.20
A-21	1/4	1	1/4	3	50121	\$ 3.36
A-21-6	1/4	1	1/4	6	50121-6	\$ 11.70
A-22	1/4	1-1/2	1/4	3-1/2	50122	\$ 3.36



How to order mandrels:

* The pilot diameter should match the arbor hole of the cartridge roll.

* The pilot length should be 1/4" to 1/2" shorter than the cartridge roll.

Cross Pads

AOX

Cross Pads: allow the operator to "see through" the pad to precisely control the point of contact. Used for close-tolerance polishing as well as deburring holes and tubing.



- 8-Ply - The most common, more flexible than 10 Ply.
- 10-Ply - Stiffer than 8-Ply.

Std. Pkg. 100

SIZE			GRIT	ITEM NO.	LIST EACH
DIA. x WIDTH	PLY	EYELET			
3/4 x 3/8	8	3-48	60	27728	\$ 1.28
			80	27729	\$ 1.28
			120	27731	\$ 1.28
1 x 3/8	8	3-48	60	27739	\$ 1.30
			80	27740	\$ 1.30
			120	27742	\$ 1.30
1-1/2 x 1/2	8	8-32	60	27750	\$ 1.07
			80	27751	\$ 1.07
			120	27753	\$ 1.07
1-1/2 x 1/2	10	8-32	60	27761	\$ 1.22
			80	27762	\$ 1.22
			120	27764	\$ 1.22
2 x 1/2	8	8-32	60	27772	\$ 1.15
			80	27773	\$ 1.15
			120	27775	\$ 1.15
2 x 1/2	10	1/4-20	60	27783	\$ 1.26
			80	27784	\$ 1.26
			120	27786	\$ 1.26
2 x 3/4	8	8-32	60	27794	\$ 1.27
			80	27795	\$ 1.27
			120	27797	\$ 1.27
2 x 3/4	10	1/4-20	60	27805	\$ 1.36
			80	27806	\$ 1.36
			120	27808	\$ 1.36
2 x 1	8	1/4-20	60	27816	\$ 1.31
			80	27817	\$ 1.31
			120	27819	\$ 1.31
2 x 1	10	1/4-20	60	27827	\$ 1.51
			80	27828	\$ 1.51
			120	27830	\$ 1.51

SIZE			GRIT	ITEM NO.	LIST EACH
DIA. x WIDTH	PLY	EYELET			
2-1/2 x 3/4	8	8-32	60	27904	\$ 1.45
			80	27905	\$ 1.45
			120	27907	\$ 1.45
2-1/2 x 3/4	10	1/4-20	60	27915	\$ 1.89
			80	27916	\$ 1.89
			120	27918	\$ 1.89
2-1/2 x 1	8	1/4-20	60	27926	\$ 1.50
			80	27927	\$ 1.50
			120	27929	\$ 1.50
2-1/2 x 1	10	1/4-20	60	27937	\$ 1.97
			80	27938	\$ 1.97
			120	27940	\$ 1.97
2-1/2 x 1-1/2	8	1/4-20	60	27948	\$ 2.47
			80	27949	\$ 2.47
			120	27951	\$ 2.47
2-1/2 x 1-1/2	10	1/4-20	60	27959	\$ 2.78
			80	27960	\$ 2.78
			120	27962	\$ 2.78
3 x 1	8	1/4-20	60	27970	\$ 2.06
			80	27971	\$ 2.06
			120	27973	\$ 2.06
3 x 1	10	1/4-20	60	27981	\$ 2.35
			80	27982	\$ 2.35
			120	27984	\$ 2.35
3 x 1-1/2	8	1/4-20	60	27992	\$ 2.78
			80	27993	\$ 2.78
			120	27995	\$ 2.78
3 x 1-1/2	10	1/4-20	60	28003	\$ 3.19
			80	28004	\$ 3.19
			120	28006	\$ 3.19

Most cross pads are made-to-order, please allow 7-10 days delivery. Also available in Ceramic or Zirc.

RPM RATINGS CROSS PADS & SQUARE PADS

Diameter	MAX RPM
1"	25,000
1-1/2"	18,000-23,000
2"	18,000-23,000
2-1/2"	14,000-18,000
3"	12,000-14,000
4"	8,000-12,000
5"	5,500-7,500
6"	5,500-7,500



Standard Pkg. 1

EYELET MANDREL	ITEM NO.	LIST EACH
3-48 Thrd. x 1/4" Shank	50328	\$ 4.31
8-32 Thrd. x 1/4" Shank	50329	\$ 4.31
8-32 Thrd. x 1/4" Shank 6" OAL	50329-6	\$ 9.25
1/4-20 Thrd. x 1/4" Shank	50330	\$ 4.31
1/4-20 Thrd. x 1/4" Shank 6" OAL	50330-6	\$ 9.46

Square Pads

AO/X

The intermittent strokes of the corners provide both a fast cutting action as well as a buffing action as the cloth backing is exposed. Will not leave a "circular" swirl pattern that discs leave behind.



Std. Pkg. 100

SIZE			ITEM NO.	LIST EACH
DIA./THICK.	EYELET	GRIT		
1-1/2" x 1/4"	8-32	60	26423	\$ 1.71
		80	26424	\$ 1.71
		120	26426	\$ 1.71
1-1/2" x 3/8"	8-32	60	26434	\$ 1.78
		80	26435	\$ 1.99
		120	26437	\$ 2.06
1-1/2" x 1/2"	1/4-20	60	26445	\$ 2.56
		80	26446	\$ 2.95
		120	26448	\$ 3.07
2" x 1/4"	8-32	60	26456	\$ 2.35
		80	26457	\$ 2.45
		120	26459	\$ 2.64
2" x 3/8"	8-32	60	26467	\$ 3.12
		80	26468	\$ 3.22
		120	26470	\$ 3.31
2" x 1/2"	1/4-20	60	26478	\$ 3.26
		80	26479	\$ 3.69
		120	26481	\$ 3.90

SIZE			ITEM NO.	LIST EACH
DIA./THICK.	EYELET	GRIT		
2-1/2" x 1/4"	1/4-20	60	26500	\$ 2.67
		80	26501	\$ 2.72
		120	26503	\$ 2.77
2-1/2" x 3/8"	1/4-20	60	26511	\$ 3.26
		80	26512	\$ 3.89
		120	26514	\$ 3.96
2-1/2" x 1/2"	1/4-20	60	26522	\$ 3.98
		80	26523	\$ 4.38
		120	26525	\$ 4.49
3" x 1/4"	1/4-20	60	26533	\$ 3.89
		80	26534	\$ 4.09
		120	26536	\$ 4.21
3" x 3/8"	1/4-20	60	26544	\$ 4.87
		80	26545	\$ 5.12
		120	26547	\$ 5.27
3" x 1/2"	1/4-20	60	26555	\$ 5.86
		80	26556	\$ 6.11
		120	26558	\$ 6.26

Also available in Ceramic or Zirc.

All square pads are made to order, please allow 7-10 days delivery.

Spin-On Overlap Discs

AO/X

2/Set: Designed for deburring or chamfering the front side of holes or tubing.

4/Set: Designed to debur both the front & back side of holes or tubing - during the same pass. For price, double the 2/set price.



Std. Pkg. 100

		2 / SET		
DIA.	EYELET	GRIT	ITEM NO.	LIST EACH
1"	8-32	60	33957	\$ 0.89
		80	33958	\$ 0.87
		120	33960	\$ 0.86
1-1/4"	8-32	60	33969	\$ 0.88
		80	33970	\$ 0.87
		120	33972	\$ 0.86
1-1/2"	8-32	60	33981	\$ 0.88
		80	33982	\$ 0.87
		120	33984	\$ 0.86

		2 / SET		
DIA.	EYELET	GRIT	ITEM NO.	LIST EACH
2"	8-32	60	34005	\$ 0.94
		80	34006	\$ 0.93
		120	34008	\$ 0.92
2-1/2"	8-32	60	34029	\$ 1.24
		80	34030	\$ 1.11
		120	34032	\$ 1.09
3"	1/4-20	60	34053	\$ 1.24
		80	34054	\$ 1.11
		120	34056	\$ 1.09

Most overlap discs are made-to-order, please allow 7-10 days delivery.

Other sizes and grits available.

Mandrels - page 33

Shop Rolls

ECONOMY SHOP ROLLS

AO J wt. Resin Bond - stiffer than our premium rolls. Economical choice for general purpose work.

ULTRA-FLEX PREMIUM SHOP ROLLS (Improved for 2013)

AO J wt. Resin Bond - feature an extremely flexible cloth backing with high tear strength.



PREMIUM "DAF" SHOP ROLLS

AO J wt. Resin Bond - Made with DAF material. Feature a flexible cloth backing.

Std. Pkg. 1		<u>ECONOMY</u>		<u>ULTRA-FLEX</u>		<u>"DAF"</u>	
SIZE	GRIT	ITEM NO.	LIST EACH	ITEM NO.	LIST EACH	ITEM NO.	LIST EACH
1" x 50 YDS.	60	73034	\$ 15.81	73134	\$ 28.34	0901005	\$ 35.30
	80	73035	\$ 15.68	73135	\$ 22.41	0901006	\$ 30.83
	100	73036	\$ 15.55	73136	\$ 21.66	0901007	\$ 28.89
	120	73037	\$ 15.55	73137	\$ 21.66	0901008	\$ 28.89
	150	73038	\$ 15.55	73138	\$ 21.66	0901009	\$ 28.89
	180	73039	\$ 15.55	73139	\$ 21.66	0901010	\$ 28.89
	220	73040	\$ 15.55	73140	\$ 21.66	0901011	\$ 28.89
	240	73041	\$ 15.55	73141	\$ 21.66	0901012	\$ 28.89
	280	73042	\$ 15.55	-	-	-	-
	320	73043	\$ 15.55	73143	\$ 21.66	0901014	\$ 28.89
	400	-	-	73144	\$ 21.66	0901015	\$ 28.89
Crocus	-	-	73193	\$ 30.52	-	-	
1-1/2" x 50 YDS.	60	73049	\$ 19.96	73149	\$ 39.92	0901505	\$ 44.69
	80	73050	\$ 19.75	73150	\$ 31.37	0901506	\$ 40.19
	100	73051	\$ 19.55	73151	\$ 30.32	0901507	\$ 38.04
	120	73052	\$ 19.55	73152	\$ 30.32	0901508	\$ 38.04
	150	73053	\$ 19.55	73153	\$ 30.32	0901509	\$ 38.04
	180	73054	\$ 19.55	73154	\$ 30.32	0901510	\$ 38.04
	220	73055	\$ 19.55	73155	\$ 30.32	0901511	\$ 38.04
	240	73056	\$ 19.55	73156	\$ 30.32	0901512	\$ 38.04
	320	73058	\$ 19.55	73158	\$ 30.32	0901514	\$ 38.04
	400	-	-	73159	\$ 30.32	0901515	\$ 38.04
	Crocus	-	-	73194	\$ 44.14	-	-
2" x 50 YDS.	60	73064	\$ 24.46	73164	\$ 51.53	0902005	\$ 58.19
	80	73065	\$ 24.27	73165	\$ 40.31	0902006	\$ 52.10
	100	73066	\$ 24.06	73166	\$ 38.48	0902007	\$ 49.30
	120	73067	\$ 24.06	73167	\$ 38.48	0902008	\$ 49.30
	150	73068	\$ 24.06	73168	\$ 38.48	0902009	\$ 49.30
	180	73069	\$ 24.06	73169	\$ 38.48	0902010	\$ 49.30
	220	73070	\$ 24.06	73170	\$ 38.48	0902011	\$ 49.30
	240	73071	\$ 24.06	73171	\$ 38.48	0902012	\$ 49.30
	280	73072	\$ 24.06	-	-	-	-
	320	73073	\$ 24.06	73173	\$ 38.48	0902014	\$ 49.30
	400	73074	\$ 24.06	73174	\$ 38.48	0902015	\$ 49.30
Crocus	-	-	73195	\$ 58.48	-	-	

2-1/2" x 50 YDS. & wider = "Utility Rolls" (made from the same flexible material as shop rolls), available on request.

Resin cloth "Production Rolls" (X-wt. belt material) shown on following page.

Sandscreen rolls also available. 1" x 25 yds, 1-1/2" x 25 yds & 2" x 25 yds. Various grits. Call for pricing.

9 x 11 Sheets

Cloth Sheets AO RB

GRIT	STD. PKG.	ITEM NO.	LIST EACH
60-J	50	74104	\$ 1.35
80-J	50	74105	\$ 1.13
100-J	50	74106	\$ 1.06
120-J	50	74107	\$ 1.06
150-J	50	74108	\$ 1.06
180-J	50	74109	\$ 1.06
220-J	50	74110	\$ 1.06
240-J	50	74111	\$ 1.06
280-J	50	74112	\$ 1.06
320-J	50	74113	\$ 1.06
400-J	50	74114	\$ 1.06
500-J	50	74115	\$ 1.06

Crocus	50	74116	\$ 1.54
--------	----	--------------	---------



Wet or Dry Silicon Carbide Paper

GRIT	STD. PKG.	ITEM NO.	LIST EACH
60-C	50	74121	\$ 0.97
80-C	50	74122	\$ 0.83
100-C	50	74123	\$ 0.72
120-C	50	74124	\$ 0.63
150-C	50	74125	\$ 0.58
180-C	50	74126	\$ 0.57
220-A	50	74128	\$ 0.51
240-A	50	74129	\$ 0.51
280-A	50	74130	\$ 0.51
320-A	50	74131	\$ 0.51
400-A	50	74133	\$ 0.51
500-A	50	74134	\$ 0.51
600-A	50	74135	\$ 0.51
800-A	50	74135-1	\$ 0.51
1000-A	50	74136	\$ 0.74
1200-A	50	74135-2	\$ 0.74
1500-A	50	74137	\$ 0.74
2000-A	50	74138	\$ 0.74
2500-A	50	74139	\$ 0.74
3000-A	50	74140	\$ 0.74

Emery Cloth

GRIT	STD. PKG.	ITEM NO.	LIST EACH
Crs.	50	74119	\$ 1.18
Med.	50	74118	\$ 1.07
Fine	50	74117	\$ 1.04



Sandscreen - Silicon Carbide

GRIT	STD. PKG.	ITEM NO.	LIST EACH
80	25	74081	\$ 2.46
100	25	74082	\$ 2.32
120	25	74083	\$ 2.32
150	25	74084	\$ 2.32
180	25	74085	\$ 2.32
220	25	74086	\$ 2.32
320	25	74088	\$ 2.32

Premium Blue AO Stearate Paper

GRIT	STD. PKG.	ITEM NO.	LIST EACH
80	50	74172	\$ 0.58
100	50	74173	\$ 0.53
120	50	74174	\$ 0.53
150	50	74175	\$ 0.53
180	50	74176	\$ 0.53
220	50	74177	\$ 0.53
320	50	74180	\$ 0.53
400	50	74181	\$ 0.53

Resin Cloth Rolls (X-wt.)

AO/X Closed Coat

Std. Pkg. 1

SIZE	GRIT / ITEM NO.									
	36	40	50	60	80	100	120	180	240	320
2" x 50 Yds.	73461	73462	73463	73464	73465	73466	73467	73469	73471	73473
	\$99.78	\$92.89	\$86.81	\$84.74	\$78.43	\$74.55	\$74.55	\$74.55	\$74.55	\$74.55
3" x 50 Yds.	73479	73480	73481	73482	73483	73484	73485	73487	73489	73491
	\$154.44	\$143.33	\$133.83	\$125.91	\$115.63	\$109.47	\$109.47	\$109.47	\$109.47	\$109.47
4" x 50 Yds.	73509	73510	73511	73512	73513	73514	73515	73517	73519	73521
	\$205.48	\$190.09	\$178.22	\$166.56	\$153.92	\$145.16	\$145.16	\$145.16	\$145.16	\$145.16
6" x 50 Yds.	73524	73525	73526	73527	73528	73529	73530	73532	73534	73536
	\$293.35	\$284.35	\$265.35	\$248.26	\$229.25	\$216.53	\$216.53	\$216.53	\$216.53	\$216.53
12" x 50 Yds.	73569	73570	73571	73572	73573	73574	73575	73577	73579	73581
	\$609.03	\$564.73	\$527.50	\$493.43	\$455.34	\$430.01	\$430.01	\$430.01	\$430.01	\$430.01

Other sizes, grits and backings are available.
PSA rolls are also available.

No-Lap Spiral Bands

AO/X

No-Lap bands provide a smooth cutting action due to their spiral wound design. Ideal for curved or contoured surfaces.



Std. Pkg. 100

SIZE DIA. x LENGTH	GRIT	ITEM NO.	LIST EACH
1/2 x 1/2	60	76321	\$ 0.36
	80	76322	\$ 0.36
	120	76324	\$ 0.36
1/2 x 1	60	76333	\$ 0.38
	80	76334	\$ 0.38
	120	76336	\$ 0.38
3/4 x 1	60	76621	\$ 0.41
	80	76622	\$ 0.40
	120	76624	\$ 0.40
1 x 1	36	76762	\$ 0.45
	50	76764	\$ 0.44
	60	76765	\$ 0.43
	80	76766	\$ 0.42
	120	76768	\$ 0.42
1 x 1-1/2	36	76774	\$ 0.58
	60	76777	\$ 0.55
	80	76778	\$ 0.54
	120	76780	\$ 0.53
1-1/2 x 1	36	77122	\$ 0.40
	50	77124	\$ 0.46
	60	77125	\$ 0.45
	80	77126	\$ 0.44
	120	77128	\$ 0.44

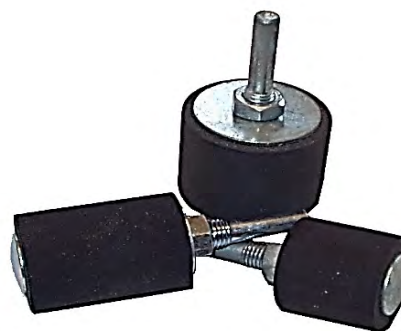
SIZE DIA. x LENGTH	GRIT	ITEM NO.	LIST EACH
1-1/2 x 1-1/2	36	77134	\$ 0.62
	50	77136	\$ 0.60
	60	77137	\$ 0.58
	80	77138	\$ 0.57
	100	77139	\$ 0.56
	120	77140	\$ 0.56
2 x 1	36	77410	\$ 0.56
	50	77412	\$ 0.54
	60	77413	\$ 0.54
	80	77414	\$ 0.53
	120	77416	\$ 0.52
2 x 1-1/2	36	77422	\$ 0.75
	50	77424	\$ 0.71
	60	77425	\$ 0.69
	80	77426	\$ 0.67
	120	77428	\$ 0.66
2 x 2	36	77434	\$ 1.00
	50	77436	\$ 0.94
	60	77437	\$ 0.92
	80	77438	\$ 0.89
	120	77440	\$ 0.88

Extra long bands for Oscillating Spindle Sanders are readily available in 4-1/2", 6" & 9" lengths.

Solid Rubber Expanding Drums

Std. Pkg. 1

DIA.	SIZE		ITEM NO.	LIST EACH
	LENGTH	SHANK		
1/2	1/2	1/8	50506	\$ 4.22
	1/2	1/4	50507	\$ 4.22
	1	1/4	50510	\$ 4.43
3/4	1	1/4	50524	\$ 4.93
	1-1/2	1/4	50525	\$ 5.42
1	1	1/4	50533	\$ 5.42
	1-1/2	1/4	50534	\$ 5.73
1-1/2	1	1/4	50542	\$ 7.18
	1-1/2	1/4	50543	\$ 7.39
2	1	1/4	50547	\$ 8.59
	1-1/2	1/4	50548	\$ 10.67
	2	1/4	50549	\$ 11.27



Zirc Flap Bands

Advantages of Flap Bands -vs- Flap Wheels:

- * More aggressive than flap wheels or spiral bands.
- * Require less pressure but cuts faster.
- * Lasts much longer!

Flap Bands provide more aggressive stock removal than flap wheels. Great for working in small confined areas; i.e. - inside pipes & tubing. As the flaps wear, new sharp grain is exposed, providing fast cutting action through the entire life of the product.

Std. Pkg. 10

SIZE DIA. x WIDTH	GRIT	ITEM NO.	LIST EACH
1-1/4" x 3/4" (Use With #SD1 Drum) Max. RPM 26,000	40	75701	\$ 10.48
	60	75702	
	80	75703	
1-3/4" x 1-3/16" (Use With #SD3 Drum) Max. RPM 19,000	40	75721	\$ 12.06
	60	75722	
	80	75723	
2-1/2" x 1-3/16" (Use With #SD4 Drum) Max. RPM 12,700	40	75731	\$ 16.80
	60	75732	
	80	75733	
3-1/2" x 1-3/16" (Use With #SD6 Drum) Max. RPM 7,600	40	75751	\$ 23.62
	60	75752	
	80	75753	
6-1/2" x 1-3/16" Std. Pkg. 2 (Use With #SD7 Drum) Max. RPM 3,000	36	75763	\$ 40.63
	40	75764	
	60	75765	
	80	75766	

Also available: 36 & 120 grit as well as AO.



Slotted Rubber Drums

Specifically designed to fit our Flap Bands.
(Will not fit regular Spiral Bands.)

Std. Pkg. 1

DRUM #	SHANK	ITEM	LIST
#SD1	1/4"	50557	\$ 17.93
#SD3	1/4"	50559	\$ 19.73
#SD4	1/4"	50560	\$ 24.33
#SD6	5/16"	50562	\$ 29.75
#SD7**	2" AH**	50563	\$ 112.53

** Supplied with a nylon reduction bushing to 1", ideal for mounting to bench & pedestal grinders.

Green Piranha - Grinding Wheels

T-27 Depressed Center Grinding Wheels



* **Save time & money** - The Green Piranha eats metal faster than any other grinding wheel.

* **Unique Bond & Wheel Design** - Less chatter, smoother and quieter providing the operator with more control.

High Performance Proprietary Grain (ceramic / zirc blend) - Long Life & VERY FAST CUTTING

SIZE DIA. x ARBOR	GRADE	STD. PKG.	ITEM NO.	LIST EACH
4-1/2 x 7/8 Max RPM 13,300	36-CZ	5	88103-5	\$ 9.91
		25	88103	\$ 9.69
	46-CZ	5	88104-5	\$ 9.91
		25	88104	\$ 9.69
4-1/2 x 5/8-11 Max RPM 13,300	36-CZ	5	88106-5	\$ 12.77
		10	88106	\$ 12.55
	46-CZ	5	88107-5	\$ 12.77
		10	88107	\$ 12.55
7 x 7/8 Max RPM 8500	36-CZ	5	88115-5	\$ 15.13
		25	88115	\$ 14.91
7 x 5/8-11 Max RPM 8500	36-CZ	5	88118-5	\$ 18.09
		10	88118	\$ 17.87

GRADE	FEATURE
36-CZ	For extremely rapid stock removal on all metals. Grinds aluminum (without clogging) .
46-CZ	For fast stock removal on aluminum - will leave a medium finish, without clogging .

Works great on all metals:

Stainless Steel Armor Plate Inconel
Aluminum Titanium Hard Face

Contaminate Free: (Virtually Iron Free) Contains only 0.035% iron, with less than 0.1% chlorine and sulfur.

Reinforced - Cut-Off Wheels



- Piranha 36-CZ - Exceptional wheel life and superior cutting rates.
- Piranha 60-CZ - Combines fast cutting action & high quality cuts.



Green Piranha: High Performance Proprietary Grain & Bond. They provide outstanding productivity on stainless steel, heat-sensitive alloys, titanium and most other metals. Also works great on sheet metal and rusted bolts. Made in the USA.

SIZE DIA. x THICK. x AH	GRADE	STD. PKG.	MAX RPM	ITEM NO.	LIST EACH
3 x 1/32 x 3/8	60-CZ	50	26,000*	87725-C	\$4.63
3 x 1/16 x 3/8	36-CZ	50	26,000*	87726-C	\$4.73
4 x 1/32 x 3/8	60-CZ	50	22,000*	87742-C	\$5.13
4 x 1/16 x 3/8	36-CZ	50	22,000*	87743-C	\$5.20



Competitive Products:

3M Green Corp®
Norton Norzon Plus®
Sait Saitech®

* Note: We use a premium fiberglass reinforcement in our Green Piranha wheels, they feature "extra high" RPM ratings.

Zirconia Premium: High Performance Zirc grain. These wheels provide a fast cut with long life. Good choice for most metals including stainless steel and high tensile alloys. Cuts faster & lasts longer than AO wheels. Made in the USA.

3 x 1/32 x 3/8	Z60T	50	25,000	87725-Z	\$2.18
3 x 1/16 x 3/8	Z46T	50	25,000	87726-Z	\$2.27
4 x 1/32 x 3/8	Z60T	50	19,000	87742-Z	\$2.33
4 x 1/16 x 3/8	Z36T	50	19,000	87743-Z	\$2.51



Competitive Products:

Norton Charger®
Brilliant Brill Max ZA®
Flexovit Flexon®

Aluminum Oxide: Versatile AO Grain. Good starting point for most metals. Made in the USA.

3 x 1/32 x 1/4	A60T	50	25,000	87721	\$1.22
3 x 1/32 x 3/8				87725	
3 x 1/16 x 1/4	A46T	50	25,000	87722	\$1.22
3 x 1/16 x 3/8				87726	
3 x 1/8 x 1/4	A36T	40	25,000	87724	\$1.61
3 x 1/8 x 3/8				87729	
4 x 1/32 x 1/4	A60T	50	19,000	87738	\$2.03
4 x 1/32 x 3/8				87742	
4 x 1/16 x 1/4	A46T	50	19,000	87739	\$2.03
4 x 1/16 x 3/8				87743	
4 x 1/8 x 1/4	A36T	40	19,000	87741	\$2.20
4 x 1/8 x 3/8				87746	



Competitive Products:

Norton Gemini®
Walter A-60-Zip®
Bullard TA46T, TA60T
Sait A36T, A60T
Flexovit A46, A60

Green Piranha & AO : .045 Slicer Wheels - Made in the USA.

4-1/2 x .045 x 7/8 Std. Pkg. 50	T-1	A60T	A/O	13,300	87770	\$2.81
	T-27	A60T		13,300	87770-27	\$2.94
	T-1	60-CZ	Green Piranha	13,300	87770-C	\$4.86
	T-27	60-CZ		13,300	87770-C-27	\$5.05
6 x .045 x 7/8 Std. Pkg. 50	T-1	A60T	A/O	10,500	87781	\$3.60
	T-27	A60T		10,500	87781-27	\$3.88
	T-1	60-CZ	Green Piranha	10,500	87781-C	\$5.05
	T-27	60-CZ		10,500	87781-C-27	\$5.61



AO
A60T

Green Piranha
60-CZ

Competitive Products:

Norton Gemini®
Metabo Slicer-Plus®
Flexovit Razorblade®
Sait A60S
Walter A-60-Zip®

3M Green Corp®
Norton Norzon Plus®
Sait Saitech®

Mandrels for Small Cut-Off Wheels

Std. Pkg. 1

MANDREL DESCRIPTION	FITS HOLE	SHANK DIA.	ITEM NO.	LIST EACH
A-100 (3-Pc. Combo)	1/4 or 3/8	1/4"	50690	\$6.38
A-100-1/4	1/4"	1/4"	50690-1	\$5.93
A-100-3/8	3/8"	1/4"	50690-2	\$5.93

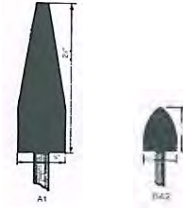


800.729.5702
www.preferredabrasives.com

Part numbers in
Bold Italic are stock

Vitrified Mounted Points

- Burnt Orange:** The most common. General purpose stock removal / light deburring.
- Blue:** Hardest general purpose grade. Longer life & more durable.
- White:** Softest general purpose grade. Best choice for use on harder steels.



Burnt Orange part numbers are shown below.

Min. Pkg. 25

SIZE	ITEM NO.	LIST EACH
A1	80010	\$ 3.99
A2	80025	\$ 2.42
A3	80040	\$ 4.31
A4	80055	\$ 2.73
A5	80070	\$ 2.31
A6	80085	\$ 2.31
A11	80100	\$ 2.94
A12	80115	\$ 2.31
A13	80130	\$ 2.73
A14	80145	\$ 1.73
A15	80160	\$ 2.21
A21	80175	\$ 1.89
A22	80190	\$ 1.68
A23	80205	\$ 1.73
A24	80220	\$ 1.58
A25	80235	\$ 1.89
A26	80250	\$ 1.68
A31	80265	\$ 2.31
A32	80280	\$ 1.73
A33	80295	\$ 1.68
A34	80310	\$ 2.00
A35	80325	\$ 1.68
A36	80340	\$ 2.31
A37	80355	\$ 1.73
A38	80370	\$ 1.58
A39	80385	\$ 1.31
A40	80400	\$ 1.68

B41	80415	\$ 1.68
B42	80430	\$ 1.58
B43	80445	\$ 1.47
B44	80460	\$ 1.47
B45	80475	\$ 1.47
B46	80490	\$ 1.47
B47	80505	\$ 1.31
B51	80520	\$ 1.58
B52	80535	\$ 1.58
B53	80550	\$ 1.58
B54	80565	\$ 1.47

SIZE	ITEM NO.	LIST EACH
B55	80580	\$ 1.31
B61	80595	\$ 1.58
B62	80610	\$ 1.47
B63	80625	\$ 1.31
B64	80640	\$ 1.31
B65	80655	\$ 1.31
B70	80670	\$ 1.47
B71	80685	\$ 1.47
B72	80700	\$ 1.31
B73	80715	\$ 1.31
B74	80730	\$ 1.31
B81	80745	\$ 1.47
B82	80760	\$ 1.31
B83	80775	\$ 1.31
B84	80790	\$ 1.31
B90	80805	\$ 1.47
B91	80820	\$ 1.58
B92	80835	\$ 1.31
B93	80850	\$ 1.31
B94	80865	\$ 1.31
B95	80880	\$ 1.31
B96	80895	\$ 1.31
B97	80910	\$ 1.47
B98	80925	\$ 1.31
B101	80940	\$ 1.68
B102	80955	\$ 1.58
B103	80970	\$ 1.47
B104	80985	\$ 1.47
B105	81000	\$ 1.31
B106	81015	\$ 1.31
B111	81030	\$ 1.58
B112	81045	\$ 1.47
B113	81060	\$ 1.31
B114	81075	\$ 1.47
B115	81090	\$ 1.31
B121	81105	\$ 1.47
B122	81120	\$ 1.47
B123	81135	\$ 1.31
B124	81150	\$ 1.31
B125	81165	\$ 1.37

SIZE	ITEM NO.	LIST EACH
B131	81180	\$ 1.31
B132	81195	\$ 1.16
B133	81210	\$ 1.16
B134	81225	\$ 1.16
B135	81240	\$ 1.16
B136	81255	\$ 1.16

W141	81270	\$ 1.05
W142	81285	\$ 1.05
W143	81300	\$ 1.05
W144	81315	\$ 1.05
W145	81330	\$ 1.16
W146	81345	\$ 1.16
W149	81360	\$ 1.05
W151	81375	\$ 1.05
W152	81390	\$ 1.05
W153	81405	\$ 1.16
W154	81420	\$ 1.16
W157	81435	\$ 1.05
W158	81450	\$ 1.05
W159	81465	\$ 1.05
W160	81480	\$ 1.05
W161	81495	\$ 1.16
W162	81510	\$ 1.16
W163	81525	\$ 1.16
W164	81540	\$ 1.21
W165	81555	\$ 1.05
W166	81570	\$ 1.05
W167	81585	\$ 1.05
W168	81600	\$ 1.16
W169	81615	\$ 1.16
W170	81630	\$ 1.16
W171	81645	\$ 1.21
W172	81660	\$ 1.05
W173	81675	\$ 1.05
W174	81690	\$ 1.05
W175	81705	\$ 1.16
W176	81720	\$ 1.16
W176*	81735	\$ 1.16

SIZE	ITEM NO.	LIST EACH
W177	81750	\$ 1.21
W177*	81765	\$ 1.21
W178	81780	\$ 1.31
W178*	81795	\$ 1.31
W179	81810	\$ 1.68
W181	81825	\$ 1.05
W182	81840	\$ 1.05
W183	81855	\$ 1.05
W184	81870	\$ 1.16
W184*	81885	\$ 1.16
W185	81900	\$ 1.16
W185*	81915	\$ 1.16
W186	81930	\$ 1.21
W186*	81945	\$ 1.21
W187	81960	\$ 1.31
W187*	81975	\$ 1.31
W188	81990	\$ 2.00
W189	82005	\$ 2.52
W190	82020	\$ 1.16
W191	82035	\$ 1.16
W192	82050	\$ 1.16
W192*	82065	\$ 1.16
W193	82080	\$ 1.21
W193*	82095	\$ 1.21
W194	82110	\$ 1.21
W194*	82125	\$ 1.21
W195	82140	\$ 1.31
W195*	82155	\$ 1.31
W196	82170	\$ 1.47
W197	82185	\$ 2.63
W198	82200	\$ 3.26
W199	82215	\$ 1.16
W200	82230	\$ 1.16
W201	82245	\$ 1.16
W202	82260	\$ 1.21
W202*	82275	\$ 1.21
W203	82290	\$ 1.21
W203*	82305	\$ 1.21
W204	82320	\$ 1.31
W204*	82335	\$ 1.31

SIZE	ITEM NO.	LIST EACH
W205	82350	\$ 1.47
W206	82365	\$ 1.73
W207	82380	\$ 2.10
W208	82395	\$ 2.63
W209	82410	\$ 3.26
W210	82425	\$ 1.21
W211	82440	\$ 1.21
W212	82455	\$ 1.21
W212*	82470	\$ 1.21
W213	82485	\$ 1.31
W213*	82500	\$ 1.31
W214	82515	\$ 1.21
W214*	82530	\$ 1.21
W215	82545	\$ 1.21
W215*	82560	\$ 1.21
W216	82575	\$ 1.21
W216*	82590	\$ 1.21
W217	82605	\$ 1.31
W218	82620	\$ 1.31
W219	82635	\$ 1.47
W220	82650	\$ 1.58
W221	82665	\$ 2.21
W222	82680	\$ 2.73
W223	82695	\$ 3.36
W225	82710	\$ 1.47
W226	82725	\$ 1.58
W227	82740	\$ 1.58
W228	82755	\$ 1.68
W229	82770	\$ 1.89
W230	82785	\$ 2.21
W231	82800	\$ 2.63
W232	82815	\$ 3.26
W235	82830	\$ 1.58
W236	82845	\$ 1.68
W237	82860	\$ 2.00
W238	82875	\$ 2.73
W239	82890	\$ 3.36
W242	82905	\$ 2.52
W243	82920	\$ 3.36
W244	82935	\$ 4.20

* = 1/4" Shank (also available with 1/8" shank at the same price)

Shape	Attributes
"A" Shapes	Come in a variety of shapes. All have 1/4" shanks
"B" Shapes	Come in a variety of shapes. All have 1/8" shanks
"W" Shapes	All are cylindrical. Available with 1/8" or 1/4" shanks

For Unitized or "MX" mounted points, see page 52

800.729.5702

www.preferredabrasives.com

Part numbers in ***Bold Italic*** are stock

NON-WOVEN COMPETITIVE CROSS-REFERENCE

PREFERRED "Flex-N-Finish"® "

3M "Scotch-Brite"

STANDARD "BriteRite"

NORTON "BEAR-TEX"

SURFACE CONDITIONING DISC MATERIAL

A-CRS (BROWN)	SCRIM COARSE	FE/GP/RC COARSE	STE COARSE
A-MED (MAROON)	SCRIM MEDIUM	FE/GP/RC MEDIUM	STE MEDIUM
A-VF (BLUE)	SCRIM VERY FINE	FE/GP/RC VERY FINE	STE VERY FINE
S-SF (GRAY)	SCRIM S SUPER FINE	N/A	N/A
C-HD CRS (BROWN) Heavy Duty	COARSE SE	N/A	SCF COARSE
C-HD MED (MAROON) Heavy Duty	MEDIUM SE	N/A	SCF MEDIUM

SURFACE CONDITIONING BELT MATERIAL

A-CRS X-FLEX (BROWN W/Green Back)	SCRIM COARSE	FE COARSE	STE COARSE
A-CRS LS (BROWN Low Stretch)	L.S. COARSE	FE/RC COARSE	L.S. COARSE
A-MED X-FLEX (MAROON W/Green Back)	SCRIM MEDIUM	FE MEDIUM	STE MEDIUM
A-MED LS (MAROON Low Stretch)	L.S. MEDIUM	FE/RC MEDIUM	L.S. MEDIUM
A-VF X-FLEX (BLUE W/Green Back)	SCRIM VERY FINE	FE VERY FINE	STE VERY FINE
A-VF LS (BLUE Low Stretch)	L.S. VERY FINE	FE/RC VERY FINE	L.S. VERY FINE
S-SF LS (GRAY Low Stretch)	N/A	N/A	N/A

ROLLS & DISCS

A-MED (TAN)	CUT & POLISH MED. A/O	AP MEDIUM / HEAVY DUTY A/O	FASTCUT A/O MED
A-MED (MAROON)	CLEAN & FINISH MED. A/O	GP A/O MEDIUM	BUFF & BLEND MED A/O
A-FINE (MAROON)	CLEAN & FINISH FINE A/O	GP A/O FINE	STANDARD FINE A/O
A-VF (MAROON)	CLEAN & FINISH V FINE A/O	GP A/O VERY FINE	STANDARD V-FINE A/O
HIGH STRENGTH A-MED (MAROON)	HIGH STRENGTH MED. A/O	HP A/O MEDIUM	HIGH STRENGTH A/O (M)
HIGH STRENGTH A-FINE (MAROON)	HIGH STRENGTH FINE. A/O	HP A/O FINE	HIGH STRENGTH A/O (F)
HIGH STRENGTH A-VF (MAROON)	HIGH STRENGTH V. FINE A/O	HP A/O VERY FINE	HIGH STRENGTH A/O (VF)
S-MED (GRAY)	CLEAN & FINISH MED. S/C	N/A	S M (GRAY)
S-FINE (GRAY)	CLEAN & FINISH FINE S/C	N/A	S F (GRAY)
S-VF (GRAY)	CLEAN & FINISH V FINE S/C	GP S/C VERY FINE	S VF (GRAY)
S-SF (GRAY)	CLEAN & FINISH S FINE S/C	N/A	S UF
S-UF (GRAY)	CLEAN & FINISH U FINE S/C	N/A	S MF (GRAY)

HAND PADS

GENERAL PURP. A-VF (MAROON)	GENERAL PURP. #7447	GENERAL PURP. A/O	GENERAL PURP. #747
HEAVY DUTY A HD (TAN)	HEAVY DUTY #7440	HEAVY DUTY A/O	HEAVY DUTY #740
ULTRA FINE S-UF (GRAY)	ULTRA FINE S/C #7448	ULTRA FINE S/C	FINAL SHINE #748
STAINLESS STEEL S-MED (BLACK)	MEDIUM S/C #7446	N/A	N/A
INDUSTRIAL SCOURING (GREEN)	INDUSTRIAL #96	INDUSTRIAL	SCOURING #796
HD COMM. SCOURING (GREEN)	COMMERCIAL #86	COMMERCIAL	N/A
CLEANING-NON ABRASIVE (WHITE)	CLEANSING PAD #7445	CLEANING	CLEANING PAD #456

CONVOLUTE WHEELS

DEBURRING XL3	EX3, EXL XP	N/A	N/A
DEBURRING XL2	EX2	DEBURRING 10 Hardness	SERIES 4000
DEBURRING XL	EXL	DEBURRING 8 & 9 Hardness	SERIES 1000
LIGHT DEBURRING LDW	LIGHT DEBURRING	GENERAL PURPOSE 7Hardness	SERIES 2000

UNITIZED WHEELS

XL UNITIZED 2 HARDNESS	EXL UNITIZED 2 HARDNESS	SERIES 500	UW1-2
XL UNITIZED 4 HARDNESS	EXL UNITIZED 4 HARDNESS	SERIES 600	UW1-4
XL UNITIZED 6 HARDNESS	EXL UNITIZED 6 HARDNESS	SERIES 700	UW1-6
XL UNITIZED 8 HARDNESS	EXL UNITIZED 8 HARDNESS	SERIES 911 / 721	UW1-8
CP UNITIZED 5 HARDNESS	CUT & POLISH 5 HARDNESS	SERIES 731 / 732	UW1-6
CP UNITIZED 7 HARDNESS	CUT & POLISH 7 HARDNESS	SERIES 800	UW1-8

Surface Conditioning Belts

Surface conditioning belts are aggressive, but will not gouge or harm the surface. They can be used on conventional belt machines and air sanders for deburring, surface conditioning, buffing & polishing.



GRADE / COLOR

- A-CRS = BROWN
- A-MED = MAROON
- A-FINE = GREEN (new)
- A-VF = BLUE
- S-SF = GRAY

X-Flex: is a premium material used primarily on narrow & short length belts. The flexible green backing offers improved grain retention! Low Stretch material is also available at the same price.

"LS" - Low Stretch: stiffer and more aggressive than X-Flex, this material is used on longer belts to reduce stretching.

SIZE	MTL.	GRADE	ITEM NO.	LIST EACH
1/2 x 12" Std. Pkg. 20	X-Flex	A-CRS	535015	\$ 4.72
		A-MED	535025	
		A-VF	535035	
1/2 x 18" Std. Pkg. 24	X-Flex	A-CRS	53512	\$ 4.23
		A-MED	53513	
		A-VF	53514	
1/2 x 24" Std. Pkg. 20	X-Flex	A-CRS	53524	\$ 4.46
		A-MED	53525	
		A-VF	53526	
3/4 x 18" Std. Pkg. 20	X-Flex	A-CRS	53532	\$ 4.88
		A-MED	53533	
		A-VF	53534	
3/4 x 20-1/2" Std. Pkg. 20	X-Flex	A-CRS	53535	\$ 5.48
		A-MED	53536	
		A-VF	53537	
1 x 30" Std. Pkg. 10	LS	A-CRS	535405	\$ 10.21
		A-MED	535415	
		A-VF	535425	
1 x 42" Std. Pkg. 12	LS	A-CRS	53556	\$ 9.59
		A-MED	53557	
		A-VF	53558	
1-1/2 x 60" Std. Pkg. 10	LS	A-CRS	535705	\$ 21.45
		A-MED	535715	
		A-VF	535725	
2 x 48" Std. Pkg. 6	LS	A-CRS	53660	\$ 15.88
		A-MED	53661	
		A-VF	53662	
2 x 60" Std. Pkg. 6	LS	A-CRS	53668	\$ 18.26
		A-MED	53669	
		A-VF	53670	
2 x 72" Std. Pkg. 6	LS	A-CRS	53676	\$ 22.93
		A-MED	53677	
		A-VF	53678	

SIZE	MTL.	GRADE	ITEM NO.	LIST EACH
2 x 132" Std. Pkg. 6	LS	A-CRS	53696	\$ 37.10
		A-MED	53697	
		A-VF	53698	
2-1/2 x 60" Std. Pkg. 5	LS	A-CRS	53728	\$ 29.73
		A-MED	53729	
		A-VF	53730	
2-3/4 x 15-1/2" Std. Pkg. 10	X-Flex	A-CRS	53736	\$ 16.80
		A-MED	53737	
		A-VF	53738	
3 x 24" Std. Pkg. 8	LS	A-CRS	53752	\$ 19.41
		A-MED	53753	
		A-VF	53754	
3 x 132" Std. Pkg. 4	LS	A-CRS	53772	\$ 54.75
		A-MED	53773	
		A-VF	53774	
3-1/2 x 15-1/2" Std. Pkg. 10	X-Flex	A-CRS	53788	\$ 17.33
		A-MED	53789	
		A-VF	53790	
3-1/2 x 15-1/2" Std. Pkg. 10	LS	A-CRS	53788-LS	\$ 17.33
		A-MED	53789-LS	
		A-VF	53790-LS	
4 x 24" Std. Pkg. 6	LS	A-CRS	53800	\$ 21.85
		A-MED	53801	
		A-VF	53802	
4 x 132" Std. Pkg. 3	LS	A-CRS	53824	\$ 69.68
		A-MED	53825	
		A-VF	53826	
4 x 168" Std. Pkg. 3	LS	A-CRS	53832	\$ 87.07
		A-MED	53833	
		A-VF	53834	
6 x 48" Std. Pkg. 4	LS	A-CRS	53856	\$ 46.01
		A-MED	53857	
		A-VF	53858	

A-FINE (Green) & S-SF (Gray) materials are now available at the same price.

Surface Conditioning: Quick-Locks

Premium & PC: These Surface Conditioning discs are made from stiff "Scrim Backed" material designed exclusively for "disc use". Since we do not use the same material for belts, it does not need to be flexed, which improves grain retention. Great for deburring, blending machine tool marks, general surface cleaning, gasket removal & heavy rust and oxidation removal. Works on most materials.

HD: (Ceramic Heavy Duty) Surface Conditioning discs contain a Ceramic / AO blend with additional resin for added strength & durability. Great on stainless steel. They are stiffer and more aggressive than our "Premium" or "PC" discs.

DIA.	GRADE	PREMIUM			"PC"		
		TYPE "S"	TYPE "R"	LIST EA.	TYPE "S"	TYPE "R"	LIST EA.
3/4" Std. Pkg. 100	A-CRS	53434	53467	\$ 0.69	-	-	-
	A-MED	53435	53468		-	-	
	A-VF	53436	53469		-	-	
1" Std. Pkg. 100	A-CRS	53437	53470	\$ 0.69	-	-	-
	A-MED	53438	53471		-	-	
	A-VF	53439	53472		-	-	
1-1/2" Std. Pkg. 100	A-CRS	53440	53473	\$ 0.78	53440-PC	53473-PC	\$ 0.66
	A-MED	53441	53474		53441-PC	53474-PC	
	A-VF	53442	53475		53442-PC	53475-PC	
	S-SF	53442-5	53475-5		-	-	
2" Std. Pkg. 50	A-CRS	53443	53476	\$ 1.05	53443-PC	53476-PC	\$ 0.89
	A-MED	53444	53477		53444-PC	53477-PC	
	A-VF	53445	53478		53445-PC	53478-PC	
	S-SF	53445-5	53478-5		-	-	
3" Std. Pkg. 25	A-CRS	53446	53479	\$ 1.93	53446-PC	53479-PC	\$ 1.64
	A-MED	53447	53480		53447-PC	53480-PC	
	A-VF	53448	53481		53448-PC	53481-PC	
	S-SF	53448-5	53481-5		-	-	
4" Std. Pkg. 25	A-CRS	53449	53485	\$ 2.70	53449-PC	53485-PC	\$ 2.30
	A-MED	53450	53486		53450-PC	53486-PC	
	A-VF	53451	53487		53451-PC	53487-PC	
	S-SF	53452	53488		-	-	

A-FINE are available at the same priced as A-VF.

GRADE / COLOR

- A-CRS = BROWN
- A-MED = MAROON
- A-FINE = GREEN (new)
- A-VF = BLUE
- S-SF = GRAY



		HEAVY DUTY		
2" Std. Pkg. 50	C-CRS	53443-HD	53476-HD	\$ 1.24
	C-MED	53444-HD	53477-HD	\$ 1.20
3" Std. Pkg. 25	C-CRS	53446-HD	53479-HD	\$ 2.19
	C-MED	53447-HD	53480-HD	\$ 2.06
4" Std. Pkg. 25	C-CRS	53449-HD	53485-HD	\$ 3.08
	C-MED	53450-HD	53486-HD	\$ 2.95

Holdings - page 19



"HD" Material (Ceramic Heavy Duty)

- C-CRS HD = BROWN
- C-MED HD = MAROON

Surface Conditioning Flap Discs

DIA.	MAX RPM	OPTIMUM RPM	GRADE	ITEM NO.	LIST EACH
4-1/2" x 7/8" Std. Pkg. 5	13,300	5,000	A-CRS	53250	\$ 13.33
			A-MED	53251	
			A-VF	53252	

Also available with 5/8-11 hub.



Surface Conditioning: Hook & Loop Discs

Hook & Loop: These discs are made from stiff "Scrim Backed" material designed exclusively for "disc use". Since we do not use the same material for belts, it does not need to be flexed, which improves grain retention. Great for deburring, blending machine tool marks, general surface cleaning, gasket removal & heavy rust and oxidation removal.

HD: (Ceramic Heavy Duty) These discs contain a Ceramic / AO blend with additional resin for added strength & durability. These discs are very stiff and aggressive.

DIA.	GRADE	ITEM NO.	LIST EACH
2" Std. Pkg. 25	A-CRS	53207	\$ 0.98
	A-MED	53209	\$ 0.86
	A-VF	53211	\$ 0.86
3" Std. Pkg. 25	A-CRS	53213	\$ 1.88
	A-MED	53215	\$ 1.66
	A-VF	53217	\$ 1.66
4" Std. Pkg. 25	A-CRS	53219	\$ 2.62
	A-MED	53221	\$ 2.33
	A-VF	53223	\$ 2.33
4-1/2" * Std. Pkg. 20	C-CRS HD	53224HD	\$ 3.37
	C-MED HD	53224-2HD	\$ 3.07
	A-CRS	53224	\$ 2.88
	A-MED	53224-2	\$ 2.54
	A-FINE	53224-3	\$ 2.54
	A-VF	53224-4	\$ 2.54
	S-SF	53224-5	\$ 2.54
5" * Std. Pkg. 20	C-CRS HD	53225HD	\$ 3.71
	C-MED HD	53227HD	\$ 3.21
	A-CRS	53225	\$ 3.44
	A-MED	53227	\$ 3.04
	A-FINE	53228	\$ 3.04
	A-VF	53229	\$ 3.04
7" * Std. Pkg. 10	C-CRS HD	53237HD	\$ 7.16
	C-MED HD	53239HD	\$ 5.84
	A-CRS	53237	\$ 5.96
	A-MED	53239	\$ 5.21
	A-FINE	53240	\$ 5.21
	A-VF	53241	\$ 5.21
	S-SF	53242	\$ 5.21



GRADE / COLOR

- A-CRS = BROWN
- A-MED = MAROON
- A-FINE = GREEN (new)
- A-VF = BLUE
- S-SF = GRAY

"HD" Material
(Ceramic Heavy Duty)

- C-CRS HD = BROWN
- C-MED HD = MAROON

*Designed specifically for
Surf. Cond. Discs.*

These holders feature
Extra Long "T" Hooks.



Std. Pkg. 1

HOOK & LOOP HOLDERS				
DIA. x ARBOR	MAX RPM	ITEM NO.	LIST EACH	
2" x 1/4"	19,000	53902	\$ 11.92	
3" x 1/4"	17,000	53903	\$ 14.28	
4" x 1/4"	15,000	53904	\$ 16.54	
4" x 5/8-11	15,000	53904SH	\$ 17.81	
4-1/2" x 5/8-11	13,000	53904Z3	\$ 18.53	
5" x 5/16-24	12,000	53905-T	\$ 19.87	
5" x 5/8-11	12,000	53905Z1	\$ 19.84	
7" x 5/8-11	8,500	53907	\$ 32.48	

* Also stocked with 7/8" arbor hole to fit on resin fiber back-up pads.

Surface Conditioning Bands

DIA.	MAX RPM	GRADE	ITEM NO.	LIST EACH
1 x 1" Std. Pkg 25	18,000	A-CRS	534940	\$ 3.30
		A-MED	534941	\$ 2.97
		A-VF	534942	\$ 2.97
1-1/2 x 1-1/2" Std. Pkg 25	10,000	A-CRS	534950	\$ 4.93
		A-MED	534951	\$ 4.79
		A-VF	534952	\$ 4.79
2 x 2" Std. Pkg 25	6,000	A-CRS	534960	\$ 5.99
		A-MED	534961	\$ 5.62
		A-VF	534962	\$ 5.62

Rubber drums - page 40

Surface conditioning bands fit on conventional rubber drums. Great for finishing curved or contoured surfaces, or for applying a linear scratch pattern to small areas.



Non-Woven Discs: Quick-Locks

Finishing



DIA.	MAX RPM	GRADE	TYPE "S"	TYPE "R"	LIST EACH
2" Std. Pkg. 50	12,000	A- MED	53343	53376	\$ 0.97
		A- FINE	53344	53377	\$ 0.91
		A-VF	53345	53378	\$ 0.91
3" Std. Pkg. 25	8,000	A- MED	53346	53379	\$ 1.55
		A- FINE	53347	53380	\$ 1.39
		A-VF	53348	53381	\$ 1.39

"Finishing" discs are made of soft "hand pad" type material. They can remove slight imperfections, light oxidation & other minor defects. NOT intended for deburring!

Hi-Strength

2" Std. Pkg. 50	12,000	A- MED	53384	53390	\$ 1.78
		A- FINE	53385	53391	\$ 1.67
		A-VF	53386	53392	\$ 1.67
3" Std. Pkg. 25	8,000	A- MED	53387	53393	\$ 2.60
		A- FINE	53388	53394	\$ 2.41
		A-VF	53389	53395	\$ 2.41



Hi-Strength fibers combined with high grain content make these durable discs ideal for deburring or final finishing work.

Surface Prep



SIZE DIA. / THICK.	MAX RPM	GRADE	TYPE "R"	LIST EACH
2" x 1/2" Std. Pkg. 25	18,000	A/O FINE	546020	\$ 2.27
		S/C S-FINE	546021	\$ 2.27

These soft unitized discs will remove light scratches and imperfections without altering the base material.

2SF & 2AM - Denser & more durable than surface prep discs. Will remove light imperfections without altering base material.

6AM - Capable of heavier deburring & surface finishing.

GFP - (Green Final Polish) wheels will leave a bright "mirror like" final finish on a variety of metals. They will not alter part geometry and do not require compound!

Unitized



2" x 1/4" Std. Pkg. 10	22,100	GFP	544591	\$ 5.68
		2SF	544602	\$ 4.76
		2AM	544600	\$ 4.76
		6AM	544604	\$ 5.90
3" x 1/4" Std. Pkg. 10	15,100	GFP	544611	\$ 9.22
		2SF	544614	\$ 8.05
		2AM	544612	\$ 8.05
		6AM	544616	\$ 10.09



Felt Polishing Disc



Std. Pkg. 10

DIA.	TYPE "S"	TYPE "R"	LIST EACH
2"	58240	58242	\$ 2.25
3"	58241	58243	\$ 3.52

Holdings - pg. 19

Compound



Std. Pkg. 1

TYPE	ITEM NO.	LIST
Chrome Rouge	58400	\$ 7.82
Stainless	58402	\$ 7.17
White Rouge	58403	\$ 6.69

Flex-N-Finish® Pads, Rolls & Discs

Designed for general clean-up, light deburring & blending. The open structure prevents loading and they can be used wet or dry.

Flex-N-Finish® Hand Pads

SIZE	ITEM NO.	GRADE	POPULAR EQUIV.	LIST EACH
6" x 9" Std. Pkg. 10 pcs. 60/Case	07447	Maroon General Purpose	7447	\$ 0.84
	07448	Gray Ultra Fine	7448	\$ 0.98
	07440	Tan Heavy Duty	7440	\$ 2.18
	07446	Gray Blending S-MED	7446	\$ 2.25
	07450	Green Scouring #96	96	\$ 0.85
	07451	Green HD Scouring #86	86	\$ 1.26
	07445	Light Duty White	7445	\$ 1.11



These rolls can be cut to size with scissors. Made from the same flexible material as our hand pads.

Flex-N-Finish® Rolls

Std. Pkg. 1 Roll

SIZE	HEAVY DUTY	A-MED	A-FINE	A-VF	S-UF
	TAN	MAROON	MAROON	MAROON	GRAY
2" x 30'	53033	53034	53035	53036	53039
	\$48.40	\$46.27	\$34.99	\$29.92	\$29.92
4" x 30'	53045	53046	53047	53048	53051
	\$94.30	\$71.18	\$53.84	\$45.63	\$45.63
6" x 30'	53057	53058	53059	53060	53063
	\$140.85	\$124.88	\$102.40	\$80.78	\$80.78



Other width rolls and other grits are also available, call for price & availability.

* Tan Heavy Duty is comparable the 3M's Tan "Cut & Polish" material.

Heavy Duty: discs can handle light to moderate surface cleaning and deburring. Great for satin and antique finishing, scratch blending and thread cleaning. They are highly conformable and can be ganged on a mandrel or a shaft.
TAN HEAVY DUTY: Comparable the 3M's Tan "Cut & Polish" material.

Hi-Strength: discs can handle medium to heavy surface cleaning and deburring. The high strength fibers combined with a high grain content deliver a tough long lasting disc. Discs can be mounted individually or ganged on a mandrel or a shaft. For extra stiffness, use with side plates.

Flex-N-Finish® Discs

Std. Pkg. 25

SIZE	MAX RPM	GRADE	Heavy Duty		Hi-Strength	
			ITEM NO.	LIST EACH	ITEM NO.	LIST EACH
6 x 1/2"	3,600	TAN HD	53099-6	\$ 4.49	-	-
		A-MED	53136	\$ 3.24	53187-1	\$ 5.72
		A-FINE	53137	\$ 2.11	53187-2	\$ 3.50
		A-VF	53138	\$ 1.77	53187-3	\$ 3.36
8 x 1/2"	2,700	HD TAN	53099-8	\$ 5.91	-	-
		A-MED	53150	\$ 4.80	53188-1	\$ 8.73
		A-FINE	53151	\$ 3.29	53188-2	\$ 4.90
		A-VF	53152	\$ 2.74	53188-3	\$ 4.70

Other sizes & arbor holes available.



Flex-N-Finish® Wheels

Flex-N-Finish® Disc Wheels

Std. Pkg. 5

SIZE	MAX RPM	GRADE	ITEM NO.	LIST EACH
2 x 1/2 x 1/4" (2 Discs)	12,000	A-MED	54213	\$ 5.82
		A-FINE	54215	
2 x 1 x 1/4" (4 Discs)	12,000	A-MED	54217	\$ 9.11
		A-FINE	54219	
3 x 1/2 x 1/4" (2 Discs)	8,000	A-MED	54221	\$ 6.57
		A-FINE	54223	
3 x 1 x 1/4" (4 Discs)	8,000	A-MED	54225	\$ 11.00
		A-FINE	54227	

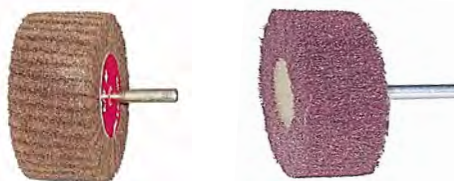


Finishing discs can handle light to moderate surface cleaning and deburring, satin and antique finishing, scratch blending and thread cleaning. They are highly conformable.

Flex-N-Finish® Mtd. Flap Brushes

Std. Pkg. 10

2 x 1 x 1/4"	13,700	TAN	5400201	\$ 14.34
		A-MED	54020103	\$ 9.41
		A-FINE	54020105	
3 x 1 x 1/4"	8,600	A-VF	54020107	
		TAN	5400301	\$ 16.46
		A-MED	54030103	\$ 11.61
A-FINE	54030105			
3 x 2 x 1/4"	8,600	A-VF	54030107	
		TAN	5400302	\$ 19.21
		A-MED	54030203	\$ 13.29
A-FINE	54030205			
A-VF	54030207			



TAN = 3M's
Cut & Polish Flap
Brush

A-MED
A-FINE
A-VF

Finishing flap wheels can handle light to moderate surface cleaning, deburring, satin and antique finishing and scratch blending.

Flex-N-Finish® Interleaf Flap Wheels

Std. Pkg. 5

1 x 1 x 1/4"	15,000	A-MED/80	54117	\$ 8.65
		A-MED/120	54118	
		A-MED/180	54119	
2 x 1 x 1/4"	13,700	A-MED/80	54123	\$ 11.05
		A-MED/120	54124	
		A-MED/180	54125	
3 x 1 x 1/4"	8,600	A-MED/80	54131	\$ 13.60
		A-MED/120	54132	
		A-MED/180	54133	
3 x 2 x 1/4"	8,600	A-MED/80	54138	\$ 19.29
		A-MED/120	54139	
		A-MED/180	54140	



Interleaf flap wheels are made of alternating flaps of coated abrasive and non-woven material. Eliminates chatter at slow speeds.

Flex-N-Finish® Flap Brushes

6 x 1 x 2" Std. Pkg. 5	4,500	A-MED	54421	\$ 41.22
		A-FINE	54422	
6 x 2 x 2" Std. Pkg. 5	4,500	A-MED	54426	\$ 60.63
		A-FINE	54427	
8 x 1 x 3" STD. PKG. 3	4,000	A-MED	54433	\$ 59.69
		A-FINE	54434	
8 x 2 x 3" STD. PKG. 3	4,000	A-MED	54441	\$ 104.11
		A-FINE	54442	



Flap brushes are flexible and will conform to irregular surfaces. They will provide fine, uniform finishes on aluminum, brass & other soft metals. These wheels are "Medium" density, harder densities are also available.

Gray S/C wheels available on request.

Cross-Buffs

DIA.	MAX RPM	GRADE	ITEM NO.	LIST EACH
1-1/2" x 1/4-20 Std. Pkg. 50 2-PLY	20,000	A- MED	56006	\$ 3.16
		A- FINE	56007	
		A- VF	56008	
2" x 1/4-20 Std. Pkg. 50 2-PLY	12,000	A- MED	56011	\$ 3.53
		A- FINE	56012	
		A- VF	56013	
3" x 1/4-20 Std. Pkg. 25 2-PLY	8,000	A- MED	56016	\$ 4.65
		A- FINE	56017	
		A- VF	56018	
1/4-20 x 3" OAL EYELET MANDREL			50330	\$ 4.31

Made with Hi-Strength material, cross buffs are ideal for ID polishing of tubes & cylindrical parts. Very conformable to fit in tight areas. Open construction reduces loading & leaves a matte finish.



Surface Conditioning Stars



DIA.	MAX RPM	GRADE	1/4-20 EYELET	TYPE "R"	LIST EACH
1-1/2" Std. Pkg. 50	25,000	A-CRS	55007	-	\$ 2.11
		A-MED	55008	-	
		A-VF	55009	-	
2" Std. Pkg. 50	20,000	A-CRS	55010	55010-R	\$ 2.65
		A-MED	55011	55011-R	
		A-VF	55012	55012-R	
3" Std. Pkg. 25	12,000	A-CRS	55015	55015-R	\$ 4.27
		A-MED	55016	55016-R	
		A-VF	55017	55017-R	
4" Std. Pkg. 25	10,000	A-CRS	55020	55020-R	\$ 6.52
		A-MED	55021	55021-R	
		A-VF	55022	55022-R	
1/4-20 x 3" OAL EYELET MANDREL				50330	\$ 4.31

Surface conditioning stars are designed for cleaning and polishing the I.D. of tubing. Effective on stainless steel, aluminum, steel and most other materials, both ferrous & non-ferrous.



Surface Prep Wheels - Type 27

Maroon & Gray Surface Prep wheels are ideal for paint removal, polishing & light scratch removal when a good finish is required. **DO NOT USE ON SHARP EDGES OR LARGE BURRS.**

GFP - (Green Final Polish) wheels will leave a high luster on stainless steel & will leave a bright "mirror like" final finish on a variety of metals. They will not alter part geometry. GFP wheels do not require compound!

DIA.	MAX RPM	GRADE	COLOR	ITEM NO.	LIST EACH
4-1/2 x 7/8" Std. Pkg. 5	11,000	A-FINE	MAROON	546040	\$ 7.09
		S-SF	GRAY	546041	
		GFP	GREEN	546100	\$ 18.51



Convolute Wheels

Deburring Wheel Grade Characteristics

- 7 Hardness** Light Deburring Wheel. Deburr, blend & polish. Soft density prevents unintended metal removal.
- 8 Hardness** ***Best starting point for new applications!*** Good for medium deburring, blending and polishing.
- 9 Hardness** Good wheel for heavier deburring & polishing.
- 10 Hardness** Hardest & most durable wheel, offers superior edge retention. Great for tough burs and sharp edges.

Deburring Wheels

Std. Pkg. 1

SIZE DIA. x WIDTH x AH	GRADE	MAX RPM	PREMIUM		"PC"	
			ITEM NO.	LIST EACH	ITEM NO.	LIST EACH
6 x 1/2 x 1	8SF	6,000	545103	\$ 50.51	545103-PC	\$ 42.93
	9SF	6,000	545105	\$ 50.51	545105-PC	\$ 42.93
	10SF	6,000	545107	\$ 50.51	545107-PC	\$ 46.62
6 x 1 x 1	7SF	4,500	545420	\$ 63.83	545420-PC	\$ 54.26
	8AM	6,000	545109	\$ 66.60	545109-PC	\$ 56.61
	8SF	6,000	545110	\$ 66.60	545110-PC	\$ 56.61
	8SM	6,000	545111	\$ 66.60	-	-
	9SF	6,000	545112	\$ 66.60	545112-PC	\$ 59.95
	10SF	6,000	545114	\$ 69.94	545114-PC	\$ 62.94
8 x 1/2 x 3	8AM	4,500	545120	\$ 58.28	545120-PC	\$ 49.54
	8SF	4,500	545121	\$ 58.28	545121-PC	\$ 49.54
	9SF	4,500	545122	\$ 58.28	545122-PC	\$ 49.54
	10SF	4,500	545124	\$ 64.11	545124-PC	\$ 54.49
8 x 1 x 3	7SF	3,400	545422	\$ 83.26	545422-PC	\$ 70.78
	8AM	4,500	545126	\$ 86.03	545126-PC	\$ 73.13
	8SF	4,500	545127	\$ 86.03	545127-PC	\$ 73.13
	8SM	4,500	545128	\$ 86.03	-	-
	9SF	4,500	545129	\$ 86.03	545129-PC	\$ 73.13
12 x 1 x 5	10SF	4,500	545132	\$ 88.94	545132-PC	\$ 75.60
	7SF	2,100	545424	\$ 116.56	-	-
	8SF	2,100	545145	\$ 122.11	545145-PC	\$ 103.80
	9SF	2,100	545147	\$ 122.11	545147-PC	\$ 103.80



"PC" - lower cost wheels are now available!

Grade explanation:

9SF	9 = Hardness F = Fine Grit
8AM	8 = Hardness A = Aluminum Oxide M = Medium Grit

Other sizes and grades are available. Arbor hole reducer bushings - page 50

Metal Finishing Wheels (RED)

Std. Pkg. 1

6 x 1 x 1	5AM	6,000	545236	\$ 78.50
6 x 2 x 1	5AM	6,000	545238	\$ 124.52
8 x 1 x 3	5AM	4,500	545240	\$ 97.55
8 x 2 x 3	5AM	4,500	545242	\$ 167.66



These durable wheels provide users with a long-lasting finishing wheel for decorative, satin and antique finishing of stainless steel, brass and aluminum.

Multi-Finishing Wheels (GRAY)

Std. Pkg. 1

6 x 1 x 1	2SC	6,000	545200	\$ 39.40
	2SM	6,000	545201	
6 x 2 x 1	2SC	6,000	545203	\$ 65.26
	2SM	6,000	545204	



Highly conformable, will provide a #4 RMS "Food Grade" finish. Best wheel to provide a bright, uniform linear finish on stainless steel or aluminum. Do not use on burrs!

GFP Wheels (GREEN)

Std. Pkg. 1

6 x 1 x 1	GFP	4,750	545409	\$ 65.66
8 x 1 x 3	GFP	3,400	545411	\$ 82.06
8 x 2 x 3	GFP	3,400	545412	\$ 145.44



GFP - (Green Final Polish) wheels will leave a "mirror like" finish on a variety of metals. Will not alter part geometry and do not require compound!

Unitized Wheels

XL Unitized Wheels - provide a consistent, uniform finish on most materials. They can be used on highly alloyed materials without smearing.

CP Unitized Wheels - **C**utting & **P**olishing wheels are harder than XL wheels. They replace rubber bonded wheels, set-up wheels & flap wheels. They provide a consistent uniform finish & are ideal for deburring most materials.

Competitive Products:

Preferred	3-M	Standard	Norton
XL 2	EXL 2	Series 500	UW1-2
XL 6	EXL 6	Series 700	UW1-4
XL 8	EXL 8	Series 911 / 721	UW1-6
CP 5AF	CP-5AF	731	UW1-6AF
CP 5SF	CP-5SF	732	UW1-6SF
CP 7AC	CP-7AC	811	UW1-8AC
CP 7AM	CP-7AM	821	UW1-8AM
CP 7SM	CP-7SM	822	UW1-8SM




SIZE DIA. x WIDTH x AH	GRADE	BOND	MAX RPM	ITEM NO.	LIST EACH
1 x 1 x 3/16 Std. Pkg. 50	2SF	XL	25,000	544892	\$ 3.74
	6AM		35,000	544893	\$ 4.37
	6SF		35,000	544894	\$ 4.37
	8AM		35,000	544895	\$ 4.88
	8AC	35,000	544896	\$ 4.88	
	5AF	CP	35,000	545000	\$ 5.61
	7AM		35,000	545001	\$ 5.61
	7AC		35,000	545002	\$ 5.61
7SM	35,000		545003	\$ 5.61	
2 x 1/8 x 1/4 Std. Pkg. 60	8AM	XL	22,000	544903-8AM	\$ 4.10
	5AF	CP	22,000	545004-1	\$ 4.63
	7AM		22,000	545004-2	\$ 4.63
	7AC		22,000	545004-3	\$ 4.63
2 x 1/4 x 1/4 Std. Pkg. 60	2AM	XL	18,000	544906	\$ 3.61
	2SF		18,000	544907	\$ 3.61
	8AC		22,000	544908	\$ 4.74
	5AF	CP	22,000	545005	\$ 5.44
	7AM		22,000	545006	\$ 5.44
	7AC		22,000	545007	\$ 5.44
	7SM		22,000	545008	\$ 5.44
	3 x 1/8 x 1/4 Std. Pkg. 40	5AF	CP	18,000	545015
7AM		18,000		545016	\$ 8.43
7AC		18,000		545017	\$ 8.43
3 x 1/4 x 1/4 Std. Pkg. 20	2AM	XL	12,000	544911	\$ 6.62
	2SF		12,000	544912	\$ 6.62
	6AM		18,000	544913	\$ 7.79
	8AM		18,000	544914	\$ 8.61
	8AC	18,000	544915	\$ 8.61	
	5AF	CP	18,000	545019	\$ 9.92
	7AM		18,000	545020	\$ 9.92
	7AC		18,000	545021	\$ 9.92
2SF	XL		4,700	544936	\$ 32.29
6 x 1/2 x 1 Std. Pkg. 4	7AM	CP	6,000	545051	\$ 48.57
6 x 1 x 1 Std. Pkg. 2	2SF	XL	4,700	544939	\$ 57.39
	7AM	CP	6,000	545056	\$ 86.31

Other sizes, grades and arbor holes available on request.



MANDREL 3/16 x 1/4" SHANK
(for 1 x 1 x 3/16 wheels)

ITEM #	LIST EACH
50801	\$ 8.39



MANDREL 1/4" AH x 1/4" SHANK
(for wheels up to 3/4" thick)

ITEM #	LIST EACH
50802	\$ 3.29



MANDREL 1/4" AH x 1/4" SHANK

ITEM #	WHL. THICK.	LIST EACH
50690-1	1/8 - 1/4"	\$ 5.93
50690-3	1/4 - 1/2"	\$ 7.40



Arbor Hole Reducer Bushings

Std. Pkg. 1 Pair

SIZE	ITEM NO.	LIST / PAIR	SIZE	ITEM NO.	LIST / PAIR
1" to 1/2"	10502	\$ 2.27	3" to 5/8"	10511	\$ 9.08
1" to 5/8"	10503	\$ 2.27	3" to 1"	10512	\$ 9.08
1" to 3/4"	10504	\$ 2.27			

Cotton Fiber "MX" Wheels

GFX: (white) Flexible latex bond. Soft bond for light deburring, blending and finishing. Blend and finish in one operation. Long life vs. unitized wheels.

***Competes well against #8-9 hardness unitized wheels.**



MTX: (brown) Hard bond for light to medium stock removal.

Std. Pkg. 10

SIZE Dia. x Width x AH	GFX				MTX		LIST EACH
	A54	A80	A120	MAX RPM	A54	MAX RPM	
2 x 1/8 x 1/4	549861	549862	549863	18,145	549865	27,120	\$ 5.33
2 x 1/4 x 1/4	549871	549872	549873	18,145	549875	27,120	\$ 8.86
3 x 1/8 x 1/4	549901	549902	549903	12,095	549905	18,080	\$ 8.08
3 x 1/8 x 3/8	549911	549912	549913	12,095	549915	18,080	\$ 8.08
3 x 1/4 x 1/4	549921	549922	549923	12,095	549925	18,080	\$ 12.98
3 x 1/4 x 3/8	549931	549932	549933	12,095	549935	18,080	\$ 12.98
4 x 1/8 x 3/8	549951	549952	549953	9,075	549955	13,560	\$ 11.62
4 x 1/4 x 3/8	549971	549972	549973	9,075	549975	13,560	\$ 18.41

Other sizes, grades and arbor holes available.

Cotton Fiber "MX" Quick-Lock Discs

MX: Works great on Stainless & Aluminum. Grind and finish in one step. Non loading! Long Life - outlast AO quick change discs 10:1. Wont smear on titanium or stainless.

- * Order 1-2 grain sizes coarser than conventional grits
- * For best results, use an undersized holder



Std. Pkg. 10

Dia.	Type	GRADE				MAX RPM	LIST EACH
		A24M	A36F	A54F	A80F		
2"	R	550009	550010	550011	550012	30,000	\$ 4.46
3"	R	550019	550020	550021	550022	20,000	\$ 5.25

Type "S" are also available. Other sizes and grits available.

Holders - page 19

Cotton Smoothie Wheels

Softer and more flexible than "MX" wheels. Will work in many of the same applications as unitized wheels, but can LAST UP TO 5X LONGER!! Ideal for applications that require more operator control. Achieve best performance at the "Optimal" RPM.

*** Competes well against #6-7 hardness unitized wheels.**



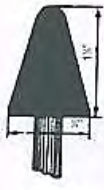
Std. Pkg. 10

SIZE Dia. x Width x AH	GRADE			RPM		LIST EACH
	CRS	MED	FINE	MAX	OPTIMAL	
2 x 1/8 x 1/4	550030	550031	550032	18,000	10,000	\$ 5.33
2 x 1/4 x 1/4	550035	550036	550037	18,000	10,000	\$ 8.86
3 x 1/8 x 3/8	550040	550041	550042	12,000	6,000	\$ 8.08
3 x 1/4 x 3/8	550045	550046	550047	12,000	6,000	\$ 12.98

Unitized Mtd. Points



A1



A5



A21



A25



B42 B52 B90 B121



"W" SERIES

Unitized Mtd. Points will provide a consistent, uniform finish on all metals. They can also be used on titanium, nickel, cobalt/chrome and other highly alloyed materials without smearing. Wheels will not undercut the work piece.

Std. Pkg. 5

SHAPE	Dia. x Lgth. x Sh. MAX RPM	GRADE	ITEM NO.	LIST EACH
A-1	3/4 x 2-1/2 x 1/4 19,800	SF AM	54944 54945	\$ 17.78
A-5	3/4 x 1-1/8 x 1/4 38,550	SF AM	54950 54951	\$ 10.18
A-21	1 x 1 x 1/4 34,500	SF AM	54953 54954	\$ 10.63
A-25	1 x 1 x 1/4 35,600	SF AM	54956 54957	\$ 12.30
B-42	1/2 x 3/4 x 1/8 33,750	SF AM	54959 54960	\$ 6.10
B-52	3/8 x 3/4 x 1/8 45,300	SF AM	54962 54963	\$ 6.06

Other sizes are available on request.

SHAPE	Dia. x Lgth. x Sh. MAX RPM	GRADE	ITEM NO.	LIST EACH
B-90	1/2 x 1/2 x 1/8 34,500	SF AM	54965 54966	\$ 6.10
B-121	1/2 x 1/2 x 1/8 45,300	SF AM	54968 54969	\$ 5.11
W-163	1/4 x 1/2 x 1/8 60,000	SF AM	54971 54972	\$ 4.24
W-185	1/2 x 1/2 x 1/8 34,500	SF AM	54977 54978	\$ 4.24
W-205	3/4 x 1 x 1/4 32,950	SF AM	54980 54981	\$ 7.25
W-220	1 x 1 x 1/4 25,500	SF AM	54983 54984	\$ 9.05

Cotton Fiber "MX" Mtd. Points

Cotton Fiber Mtd. Points can offer longer life than unitized mtd. points. They can also be used on aluminum without loading.

GFX: (white) Flexible latex bond. Soft bond for light deburring and finishing. Blend and finish in one operation.

MTX: (brown) Hard bond for light to medium stock removal.



B52 B121 "W" SERIES

Std. Pkg. 10

SHAPE	Dia. x Lgth. x Sh. MAX RPM	GRADE	ITEM NO.	LIST EACH
B-52	3/8 x 3/4 x 1/8 45,300	A80-GFX A80-MTX	80531 80532	\$ 9.06
B-121	1/2 x 1/2 x 1/8 45,300	A80-GFX A80-MTX	81101 81102	\$ 7.62
W-163	1/4 x 1/2 x 1/8 60,000	A80-GFX A80-MTX	81521 81522	\$ 6.38
W-176	3/8 x 1/2 x 1/8 45,300	A80-GFX A80-MTX	81716 81717	\$ 6.38

Other sizes & grades are available on request.

SHAPE	Dia. x Lgth. x Sh. MAX RPM	GRADE	ITEM NO.	LIST EACH
W-177	3/8 x 3/4 x 1/8 33,750	A80-GFX A80-MTX	81746 81747	\$ 7.72
W-185	1/2 x 1/2 x 1/8 34,500	A80-GFX A80-MTX	81901 81902	\$ 6.38
W-205	3/4 x 1 x 1/4 32,950	A80-GFX A80-MTX	82356 82357	\$ 10.85
W-220	1 x 1 x 1/4 25,500	A80-GFX A80-MTX	82646 82647	\$ 13.15

Vitrified Mounted Points are shown on page 40.

Flex-N-Strip® Products

BLACK: General Purpose

Flex-N-Strip products are made from super strong nylon fibers and Coarse S/C grain. Excellent for cleaning welds, removing rust, paint and coatings. ***A safer alternative than wire brushes.***

RED: Extra Rigid & Faster Cutting

Discs w/Arbor Holes

Std. Pkg. 10

SIZE DIA. x AH	MAX RPM	OPTIMUM RPM	BLACK		RED	
			ITEM NO.	LIST EACH	ITEM NO.	LIST EACH
3 x 1/2"	10,000	6,000	57001	\$ 5.37	57001-R	\$ 7.52
4 x 1/2"	6,000	3,600	57003	\$ 5.70	57003-R	\$ 7.98
6 x 1/2"	4,000	2,400	57005	\$ 9.51	57005-R	\$ 13.37
8 x 1/2"	3,000	1,800	57007	\$ 16.26	57007-R	\$ 22.82



Type 27 Wheels

Std. Pkg. 5

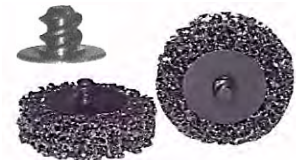
SIZE	MAX RPM	OPTIMUM RPM	BLACK		RED	
			ITEM NO.	LIST EACH	ITEM NO.	LIST EACH
4-1/2 x 7/8"	11,500	3,000	57041	\$ 10.32	57041-R	\$ 11.48
4-1/2 x 5/8-11	11,500	3,000	57041-H	\$ 12.19	57041-R-H	\$ 13.36
7 x 7/8"	6,500	2,000	57042	\$ 19.85	57042-R	\$ 22.05
7 x 5/8-11	6,500	2,000	57042-H	\$ 22.80	57042-R-H	\$ 25.01



Type "R" Quick-Lock Discs

Std. Pkg. 10

SIZE	MAX RPM	OPTIMUM RPM	BLACK		RED	
			ITEM NO.	LIST EACH	ITEM NO.	LIST EACH
2"	12,000	7,000	57050	\$ 3.26	57050-R	\$ 4.55
3"	8,500	5,000	57051	\$ 5.55	57051-R	\$ 8.01



Holders - page 19

Flex-N-Strip® Disc Mandrels

Std. Pkg. 1

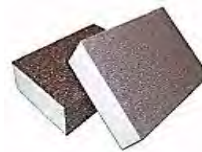
Mandrel Number	FITS HOLE	MAX WIDTH	SH. DIA.	ITEM NO.	LIST EACH
Mandrel #5050	1/2"	1/2" *	1/4"	50693	\$ 4.17
	* For use with a single disc (Approx. 1/2" thick)				
Mandrel #5100	1/2"	1" **	1/4"	50694	\$ 6.52
	** For use with 2 discs (Approx. 1" thick)				



Sponges

Std. Pkg. 12

WIDTH	GRADE	ITEM NO.	LIST EACH
4 x 2-3/4 x 1"	COARSE / MEDIUM	39150	\$ 3.10
	MEDIUM / FINE	39151	\$ 3.10



Sponges are waterproof. Great for sanding drywall, wood and many other uses.

ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG
07440	46	10614FF	24	10838AF	24	10975T	23	11165	25	11300	25	12240	25	13209	25	21138	31
07445	46	10615AF	24	10838FF	24	10976T	23	11167	25	11302	25	12241	25	13211	25	21140	31
07446	46	10615FF	24	10839AF	24	10984T	23	11168	25	11304	25	12242	25	13213	25	21159	31
07447	46	10616AF	24	10839FF	24	10985T	23	11169	25	11306	25	12244	25	13215	25	21159-C	31
07448	46	10616FF	24	10840AF	24	10986T	23	11170	25	11308	25	12246	25	13217	25	21160	31
07450	46	10617AF	24	10840FF	24	11082-3	26	11172	25	11336	25	12248	25	13232	25	21160-C	31
07451	46	10617FF	24	10841AF	24	11082-4	26	11174	25	11338	25	12250	25	13234	25	21161	31
0901005	35	10623AF	24	10841FF	24	11082-5	26	11176	25	11339	25	12343	25	13235	25	21162	31
0901006	35	10623FF	24	10848AF	24	11082-6	26	11178	25	11341	25	12345	25	13237	25	21162-C	31
0901007	35	10624AF	24	10848FF	24	11082-7	26	11179-3	26	11342	25	12346	25	13239	25	21164	31
0901008	35	10624FF	24	10849AF	24	11082-8	26	11179-4	26	11343	25	12348	25	13241	25	21165	31
0901009	35	10625AF	24	10849FF	24	11090-3	26	11179-5	26	11345	25	12350	25	13243	25	21166	31
0901010	35	10625FF	24	10850AF	24	11090-4	26	11179-6	26	11347	25	12352	25	13260	25	21167	31
0901011	35	10626AF	24	10850FF	24	11090-5	26	11179-7	26	11362	25	12354	25	13261	25	21167-C	31
0901012	35	10626FF	24	10851AF	24	11090-6	26	11179-8	26	11364	25	12804	26	13263	25	21168	31
0901014	35	10627AF	24	10851FF	24	11090-7	26	11182-3	26	11365	25	12805	26	13265	25	21168-C	31
0901015	35	10627FF	24	10853AF	24	11090-8	26	11182-4	26	11367	25	12807	26	13267	25	21169	31
0901505	35	10639AF	24	10853FF	24	11091-3	26	11182-5	26	11369	25	12815	26	13269	25	21170	31
0901506	35	10640AF	24	10854AF	24	11091-4	26	11182-6	26	11371	25	12816	26	13284	25	21170-C	31
0901507	35	10641AF	24	10854FF	24	11091-5	26	11182-7	26	11373	25	12818	26	13286	25	21172	31
0901508	35	10649AF	24	10855AF	24	11091-6	26	11182-8	26	11377	25	12826	26	13287	25	21173	31
0901509	35	10650AF	24	10855FF	24	11091-7	26	11195-3	26	11378	25	12827	26	13289	25	21174	31
0901510	35	10651AF	24	10856AF	24	11091-8	26	11195-4	26	11380	25	12829	26	13291	25	21211	31
0901511	35	10653AF	24	10856FF	24	11104-3	26	11195-5	26	11382	25	12837	26	13293	25	21212	31
0901512	35	10653FF	24	10863AF	24	11104-4	26	11195-6	26	11384	25	12838	26	13295	25	21214	31
0901514	35	10654AF	24	10863FF	24	11104-5	26	11195-7	26	11386	25	12840	26	13338	25	21223	31
0901515	35	10654FF	24	10864AF	24	11104-6	26	11195-8	26	11388	25	12848	26	13339	25	21224	31
0902005	35	10655AF	24	10864FF	24	11104-7	26	11206	25	11390	25	12849	26	13341	25	21226	31
0902006	35	10655FF	24	10865AF	24	11104-8	26	11208	25	11391	25	12851	26	13343	25	21270	31
0902007	35	10656AF	24	10865FF	24	11117-3	26	11209	25	11393	25	12859	26	13345	25	21271	31
0902008	35	10656FF	24	10866AF	24	11117-4	26	11211	25	11395	25	12860	26	13347	25	21271-C	31
0902009	35	10663AF	24	10866FF	24	11117-5	26	11213	25	11397	25	12862	26	13364	25	21272	31
0902010	35	10663FF	24	10913AF	23	11117-6	26	11215	25	11399	25	12870	26	13365	25	21272-C	31
0902011	35	10664AF	24	10913FF	23	11117-7	26	11217	25	11401	25	12871	26	13367	25	21273	31
0902012	35	10664FF	24	10914AF	23	11117-8	26	11232	25	11403	25	12873	26	13388	25	21274	31
0902014	35	10665AF	24	10914FF	23	11127-3	26	11234	25	11404	25	12881	26	13390	25	21274-C	31
0902015	35	10665FF	24	10915AF	23	11127-4	26	11235	25	11406	25	12882	26	13391	25	21276	31
10231	27	10666AF	24	10915FF	23	11127-5	26	11237	25	11408	25	12884	26	13393	25	21277	31
10233	27	10666FF	24	10916AF	23	11127-6	26	11239	25	11410	25	12892	26	13395	25	21282	31
10234	27	10813AF	24	10916FF	23	11127-7	26	11241	25	11412	25	12893	26	13397	25	21283	31
10236	27	10813FF	24	10923AF	23	11127-8	26	11243	25	11414	25	12895	26	13399	25	21283-C	31
10241	27	10814AF	24	10923FF	23	11128-3	26	11258	25	11416	25	12903	26	13403	25	21284	31
10242	27	10814FF	24	10924AF	23	11128-4	26	11260	25	11417	25	12904	26	13404	25	21284-C	31
10243	27	10814T	23	10924FF	23	11128-5	26	11261	25	11418	25	12906	26	13406	25	21285	31
10244	27	10815AF	24	10925AF	23	11128-6	26	11263	25	11419	25	12914	26	14167	25	21285-AH	31
10246	27	10815FF	24	10925FF	23	11128-7	26	11265	25	11421	25	12915	26	14169	25	21286	31
10261	27	10815T	23	10926AF	23	11128-8	26	11267	25	11423	25	12917	26	14170	25	21286-C	31
10263	27	10816AF	24	10926FF	23	11129-3	26	11269	25	11425	25	12950	26	14172	25	21288	31
10264	27	10816FF	24	10953AF	23	11129-4	26	11271	25	12148	25	12951	26	14174	25	21289	31
10266	27	10816T	23	10953FF	23	11129-5	26	11273	25	12149	25	12952	26	14232	25	21290	31
10281	27	10817AF	24	10954AF	23	11129-6	26	11274	25	12150	25	12953	26	14234	25	21295	31
10283	27	10817FF	24	10954FF	23	11129-7	26	11276	25	12151	25	12954	26	14235	25	21296	31
10284	27	10823AF	24	10955AF	23	11129-8	26	11278	25	12153	25	12955	26	14237	25	21298	31
10286	27	10823FF	24	10955FF	23	11139-1	25	11280	25	12155	25	13156	25	14284	25	21331	31
10343	27	10824AF	24	10956AF	23	11139-3	25	11281	25	12157	25	13157	25	14286	25	21331-C	31
10344	27	10824FF	24	10956FF	23	11139-4	25	11282	25	12159	25	13159	25	14287	25	21332	31
10346	27	10824T	23	10963AF	23	11139-5	25	11284	25	12187	25	13161	25	14289	25	21332-C	31
10502	27	10825AF	24	10963FF	23	11139-6	25	11286	25	12188	25	13167	25	14291	25	21333	31
10503	27	10825FF	24	10964AF	23	11139-7	25	11287	25	12189	25	13169	25	14388	25	21334	31
10504	27	10825T	23	10964FF	23	11139-8	25	11289	25	12190	25	13170	25	14390	25	21334-C	31
10511	50	10826AF	24	10965AF	23	11156	25	11291	25	12192	25	13172	25	14391	25	21336	31
10512	50	10826FF	24	10965FF	23	11157	25	11293	25	12194	25	13174	25	14393	25	21337	31
10613AF	24	10826T	23	10966AF	23	11159	25	11295	25	12196	25	13176	25	14395	25	21338	31
10613FF	24	10827AF	24	10966FF	23	11161	25	11297	25	12198	25	13178	25	21136	31	21340	31
10614AF	24	10827FF	24	10974T	23	11163	25	11299	25	12239	25	13208	25	21137	31	21341	31

ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG
21342	31	23326	32	27784	33	30416-8	30	30490-8	30	30573-Z	29	31444-E	19	31638-E	19	31671	18				
21343	31	23357	32	27786	33	30417-8	30	30492-8	30	30573-Z3	29	31449	18	31639	18	31672	18				
21343-C	31	23358	32	27794	33	30418-8	30	30498-8	30	30582-8	30	31449-E	19	31639-E	19	31718FD	24				
21344	31	23360	32	27795	33	30419-8	30	30499-8	30	30583-8	30	31450	18	31640	18	31719FD	24				
21344-C	31	23405	32	27797	33	30420-8	30	30500-8	30	30584-8	30	31450-E	19	31640-E	19	31721FD	24				
21345	31	23406	32	27805	33	30422-8	30	30501-8	30	30585-8	30	31450-SC	20	31641	18	31722FD	24				
21345-C	31	23408	32	27806	33	30438-8	30	30502-8	30	30586-8	30	31451	18	31641-E	19	31724FD	24				
21346	31	23465	32	27808	33	30438-Z	29	30504-8	30	30594-8	30	31451-E	19	31642	18	31726FD	24				
21346-C	31	23466	32	27816	33	30438-Z3	29	30510-8	30	30595-8	30	31452	18	31642-E	19	31727FD	24				
21348	31	23468	32	27817	33	30439-8	30	30510-Z	29	30596-8	30	31452-E	19	31643	18	31729FD	24				
21349	31	23621	32	27819	33	30439-Z	29	30510-Z3	29	30597-8	30	31452-SC	20	31643-E	19	31730FD	24				
21350	31	23622	32	27827	33	30439-Z3	29	30511-8	30	30598-8	30	31453	18	31644	18	31732FD	24				
21354	31	23624	32	27828	33	30440-8	30	30511-Z	29	31214-E	19	31453-E	19	31644-E	19	31801	20				
21355	31	26423	34	27830	33	30440-Z	29	30511-Z3	29	31215-E	19	31453-SC	20	31647	18	31802	20				
21356	31	26424	34	27904	33	30440-Z3	29	30512-8	30	31216-E	19	31454	18	31647-E	19	31803	20				
21358	31	26426	34	27905	33	30441-8	30	30512-Z	29	31217-E	19	31454-E	19	31649	18	319022	18				
21439	31	26434	34	27907	33	30441-Z	29	30512-Z3	29	31218-E	19	31454-SC	20	31649-E	19	319023	18				
21440	31	26435	34	27915	33	30441-Z3	29	30513-8	30	31219-E	19	31455	18	31650	18	319024	18				
21442	31	26437	34	27916	33	30442-8	30	30513-Z	29	31220-E	19	31455-E	19	31650-E	19	319025	18				
21451	31	26445	34	27918	33	30442-Z	29	30513-Z3	29	31238-E	19	31455-SC	20	31650-SC	20	319026	18				
21452	31	26446	34	27926	33	30442-Z3	29	30514-8	30	31239-E	19	31456	18	31651	18	319027	18				
21454	31	26448	34	27927	33	30443-8	30	30514-Z	29	31240-E	19	31456-E	19	31651-E	19	319028	18				
21523	31	26456	34	27929	33	30443-Z	29	30514-Z3	29	31241-E	19	31456-SC	20	31652	18	319031	18				
21524	31	26457	34	27937	33	30443-Z3	29	30515	30	31242-E	19	31458	18	31652-E	19	319032	18				
21526	31	26459	34	27938	33	30444-8	30	30515-Z	29	31244-E	19	31458-SC	20	31652-SC	20	319033	18				
21535	31	26467	34	27940	33	30444-Z	29	30515-Z3	29	31249-E	19	31459	18	31653	18	319034	18				
21535-AH	31	26468	34	27948	33	30444-Z3	29	30516-8	30	31250-E	19	31460	18	31653-E	19	319035	18				
21536	31	26470	34	27949	33	30446-8	30	30516-Z	29	31251-E	19	31461	18	31653-SC	20	319036	18				
21536-AH	31	26478	34	27951	33	30446-Z	29	30516-Z3	29	31252-E	19	31461-E	19	31654	18	319037	18				
21538	31	26479	34	27959	33	30447-8	30	30518-Z	29	31253-E	19	31461-SC	20	31654-E	19	319038	18				
21538-AH	31	26481	34	27960	33	30450-8	30	30522-8	30	31254-E	19	31462	18	31654-SC	20	319041	18				
21547-AH	31	26500	34	27962	33	30450-Z	29	30523-8	30	31255-E	19	31462-E	19	31655	18	319042	18				
21548-AH	31	26501	34	27970	33	30450-Z3	29	30524-8	30	31256-E	19	31462-SC	20	31655-E	19	319043	18				
21550-AH	31	26503	34	27971	33	30451-8	30	30525-8	30	31257-E	19	31463	18	31655-SC	20	319044	18				
21796	31	26511	34	27973	33	30451-Z	29	30526-8	30	31258-E	19	31463-E	19	31656	18	319045	18				
21799	31	26512	34	27981	33	30451-Z3	29	30534-8	30	31259-E	19	31464	18	31656-E	19	319046	18				
21800	31	26514	34	27982	33	30452-8	30	30535-8	30	31260-E	19	31464-E	19	31656-SC	20	319047	18				
21916	31	26522	34	27984	33	30452-Z	29	30536-8	30	31261-E	19	31464-SC	20	31658	18	319048	18				
21919	31	26523	34	27992	33	30452-Z3	29	30537-8	30	31262-E	19	31465	18	31658-SC	20	319122	18				
21920	31	26525	34	27993	33	30453-8	30	30538-8	30	31263-E	19	31465-E	19	31659	18	319123	18				
23105	32	26533	34	27995	33	30453-Z	29	30538-8	30	31264-E	19	31465-SC	20	31660	18	319124	18				
23105-C	32	26534	34	28003	33	30453-Z3	29	30558-Z	29	31265-E	19	31466	18	31661	18	319125	18				
23106	32	26536	34	28004	33	30454-8	30	30558-Z3	29	31266-E	19	31466-E	19	31661-E	19	319126	18				
23106-C	32	26544	34	28006	33	30454-Z	29	30559-8	30	31268-E	19	31466-SC	20	31662	18	319127	18				
23108	32	26545	34	30381-8	30	30454-Z3	29	30559-Z	29	31270-E	19	31467	18	31662-E	19	319128	18				
23108-C	32	26547	34	30382-8	30	30455-8	30	30559-Z3	29	31414-E	19	31467-E	19	31662-SC	20	319131	18				
23141	32	26555	34	30383-8	30	30455-Z	29	30560-8	30	31415-E	19	31467-SC	20	31663	18	319132	18				
23141-C	32	26556	34	30384-8	30	30455-Z3	29	30560-Z	29	31416-E	19	31468	18	31663-E	19	319133	18				
23142	32	26558	34	30386-8	30	30456-8	30	30560-Z3	29	31417-E	19	31468-E	19	31664	18	319134	18				
23142-C	32	27728	33	30392-8	30	30456-Z	29	30561-8	30	31418-E	19	31468-SC	20	31664-E	19	319135	18				
23144	32	27729	33	30393-8	30	30456-Z3	29	30561-Z	29	31419-E	19	31470	18	31664-SC	20	319136	18				
23144-C	32	27731	33	30394-8	30	30458-8	30	30561-Z3	29	31420-E	19	31470-SC	20	31665	18	319137	18				
23146	32	27739	33	30395-8	30	30458-Z	29	30562-8	30	31438	18	31471	18	31665-E	19	319138	18				
23285	32	27740	33	30396-8	30	30459-8	30	30562-Z	29	31438-E	19	31472	18	31665-SC	20	319141	18				
23285-C	32	27742	33	30398-8	30	30474-8	30	30562-Z3	29	31439	18	31535FD	24	31666	18	319142	18				
23286	32	27750	33	30402-8	30	30475-8	30	30570-8	30	31439-E	19	31536FD	24	31666-E	19	319143	18				
23286-C	32	27751	33	30403-8	30	30476-8	30	30570-Z	29	31440	18	31538FD	24	31666-SC	20	319144	18				
23288	32	27753	33	30404-8	30	30477-8	30	30570-Z3	29	31440-E	19	31539FD	24	31667	18	319145	18				
23288-C	32	27761	33	30405-8	30	30478-8	30	30571-8	30	31441	18	31541FD	24	31667-E	19	319146	18				
23321	32	27762	33	30406-8	30	30479-8	30	30571-Z	29	31441-E	19	31547FD	24	31667-SC	20	319147	18				
23321-C	32	27764	33	30407-8	30	30480-8	30	30571-Z3	29	31442	18	31548FD	24	31668	18	319148	18				
23322	32	27772	33	30408-8	30	30486-8	30	30572-8	29	31442-E	19	31550FD	24	31668-E	19	32438	18				
23322-C	32	27773	33	30410-8	30	30487-8	30	30572-Z	29	31443	18	31551FD	24	31668-SC	20	32439	18				
23324	32	27775	33	30414-8	30	30488-8	30	30572-Z3	29	31443-E	19	31553FD	24	31670	18	32440	18				
23324-C	32	27783	33	30415-8	30	30489-8	30	30573-8	30	31444	18	31638	18	31670-SC	20	32441	18				

ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG
53532	42	53905F	29	544914	50	545240	49	549953	51	57041-HUB	53	70058-04	9	70086-Z3	9	70153-C3	10				
53533	42	53905-T	44	544915	50	545242	49	549955	51	57041-R	53	70058-04-C3	9	70087	9	70153-Z3	10				
53534	42	53906	29	544936	50	545409	49	549971	51	57041-R-HUB	53	70058-04-Z3	9	70087-C3	9	70154	10				
53535	42	53906F	29	544939	50	545411	49	549972	51	57042	53	70059	9	70087-Z3	9	70154-C3	10				
53536	42	53907	44	545000	50	545412	49	549973	51	57042-HUB	53	70059-C3	9	70088	9	70154-Z3	10				
53537	42	5400201	47	545001	50	545420	49	549975	51	57042-R	53	70059-Z3	9	70088-C3	9	70155	10				
535405	42	5400301	47	545002	50	545420-PC	49	550009	51	57042-R-HUB	53	70060	9	70088-Z3	9	70155-C3	10				
535415	42	5400302	47	545003	50	545422	49	550010	51	57050	53	70060-C3	9	70089	9	70155-Z3	10				
535425	42	54020103	47	545004-1	50	545422-PC	49	550011	51	57050-R	53	70060-Z3	9	70089-C3	9	70156	10				
53556	42	54020105	47	545004-2	50	545424	49	550012	51	57051	53	70061	9	70089-Z3	9	70156-C3	10				
53557	42	54020107	47	545004-3	50	546020	45	550019	51	57051-R	53	70061-C3	9	70090	9	70156-Z3	10				
53558	42	54030103	47	545005	50	546021	45	550020	51	58240	45	70061-Z3	9	70090-C3	9	70159-02	10				
535705	42	54030105	47	545006	50	546040	48	550021	51	58241	45	70062	9	70090-Z3	9	70159-02-C3	10				
535715	42	54030107	47	545007	50	546041	48	550022	51	58242	45	70062-C3	9	70120	9	70159-02-Z3	10				
535725	42	54030203	47	545008	50	546100	48	550030	51	58243	45	70062-Z3	9	70120-C3	9	70159-03	10				
53660	42	54030205	47	545015	50	54944	52	550031	51	68010	8	70072	9	70120-Z3	9	70159-03-C3	10				
53661	42	54030207	47	545016	50	54945	52	550032	51	68026	8	70072-C3	9	70121	9	70159-03-Z3	10				
53662	42	54117	47	545017	50	54950	52	550035	51	68027	8	70072-Z3	9	70121-C3	9	70159-04	10				
53668	42	54118	47	545019	50	54951	52	550036	51	69908	8	70073	9	70121-Z3	9	70159-04-C3	10				
53669	42	54119	47	545020	50	54953	52	550037	51	69909	8	70073-C3	9	70122	9	70159-04-Z3	10				
53670	42	54123	47	545021	50	54954	52	550040	51	69911	8	70073-Z3	9	70122-C3	9	70159-05	10				
53676	42	54124	47	545051	50	54956	52	550041	51	69913	8	70074	9	70122-Z3	9	70159-05-C3	10				
53677	42	54125	47	545056	50	54957	52	550042	51	69920	8	70074-C3	9	70123	9	70159-05-Z3	10				
53678	42	54131	47	545103	49	54959	52	550045	51	69921	8	70074-Z3	9	70123-C3	9	70159-06	10				
53696	42	54132	47	545103-PC	49	54960	52	550046	51	69923	8	70075	9	70123-Z3	9	70159-06-C3	10				
53697	42	54133	47	545105	49	54962	52	550047	51	69925	8	70075-C3	9	70124	9	70159-06-Z3	10				
53698	42	54138	47	545105-PC	49	54963	52	55007	48	69932	8	70075-Z3	9	70124-C3	9	70159-07	10				
53728	42	54139	47	545107	49	54965	52	55008	48	69933	8	70076	9	70124-Z3	9	70159-07-C3	10				
53729	42	54140	47	545107-PC	49	54966	52	55009	48	69935	8	70076-C3	9	70125-07	9	70159-07-Z3	10				
53730	42	54213	47	545109	49	54968	52	55010	48	69937	8	70076-Z3	9	70125-07-C3	9	70159-08	10				
53736	42	54215	47	545109-PC	49	54969	52	55010-R	48	69944	8	70077	9	70125-07-Z3	9	70159-08-C3	10				
53737	42	54217	47	545110	49	54971	52	55011	48	69945	8	70077-C3	9	70125-08	9	70159-08-Z3	10				
53738	42	54219	47	545110-PC	49	54972	52	55011-R	48	69947	8	70077-Z3	9	70125-08-C3	9	701602	10				
53752	42	54221	47	545111	49	54977	52	55012	48	69949	8	70078	9	70125-08-Z3	9	701602-C3	10				
53753	42	54223	47	545112	49	54978	52	55012-R	48	69956	8	70078-C3	9	70126	9	701602-Z3	10				
53754	42	54225	47	545112-PC	49	54980	52	55015	48	69957	8	70078-Z3	9	70126-C3	9	701603	10				
53772	42	54227	47	545114	49	54981	52	55015-R	48	69959	8	700811-02	9	70126-Z3	9	701603-C3	10				
53773	42	54421	47	545114-PC	49	54983	52	55016	48	69961	8	700811-02-C3	9	70127	9	701603-Z3	10				
53774	42	54422	47	545120	49	54984	52	55016-R	48	70045	9	700811-02-Z3	9	70127-C3	9	701604	10				
53788	42	54426	47	545120-PC	49	549861	51	55017	48	70045-C3	9	700811-03	9	70127-Z3	9	701604-C3	10				
53788-LS	42	54427	47	545121	49	549862	51	55017-R	48	70045-Z3	9	700811-03-C3	9	70128	9	701604-Z3	10				
53789	42	54433	47	545121-PC	49	549863	51	55020	48	70046	9	700811-03-Z3	9	70128-C3	9	701605	10				
53789-LS	42	54434	47	545122	49	549865	51	55020-R	48	70046-C3	9	700811-04	9	70128-Z3	9	701605-C3	10				
53790	42	54441	47	545122-PC	49	549871	51	55021	48	70046-Z3	9	700811-04-C3	9	70129	9	701605-Z3	10				
53800	42	54442	47	545124	49	549872	51	55021-R	48	70047	9	700811-04-Z3	9	70129-C3	9	701606	10				
53801	42	544591	45	545124-PC	49	549873	51	55022	48	70047-C3	9	700811-05	9	70129-Z3	9	701606-C3	10				
53802	42	544600	45	545126	49	549875	51	55022-R	48	70047-Z3	9	700811-05-C3	9	70130	9	701606-Z3	10				
53824	42	544602	45	545126-PC	49	549901	51	56006	48	70048	9	700811-05-Z3	9	70130-C3	9	701607	10				
53825	42	544604	45	545127	49	549902	51	56007	48	70048-C3	9	700811-06	9	70130-Z3	9	701607-C3	10				
53826	42	544611	45	545127-PC	49	549903	51	56008	48	70048-Z3	9	700811-06-C3	9	70131	9	701607-Z3	10				
53832	42	544612	45	545128	49	549905	51	56011	48	70049	9	700811-06-Z3	9	70131-C3	9	701608	10				
53833	42	544614	45	545129	49	549911	51	56012	48	70049-C3	9	700811-07	9	70131-Z3	9	701608-C3	10				
53834	42	544616	45	545129-PC	49	549912	51	56013	48	70049-Z3	9	700811-07-C3	9	70132	9	701608-Z3	10				
53856	42	544892	50	545132	49	549913	51	56016	48	70049	9	700811-07-Z3	9	70132-C3	9	70162	10				
53857	42	544893	50	545132-PC	49	549915	51	56017	48	70049-C3	9	700811-08	9	70132-Z3	9	70162-C3	10				
53858	42	544894	50	545145	49	549921	51	56018	48	700490-Z3	9	700811-08-C3	9	70150	10	70162-PC	8				
53902	44	544895	50	545145-PC	49	549922	51	57001	53	700491	9	700811-08-Z3	9	70150-C3	10	70162-Z3	10				
53902-F	27	544896	50	545147	49	549923	51	57001-R	53	700491-C3	9	70084	9	70150-Z3	10	70163	10				
53903	44	544903-8AM	50	545147-PC	49	549925	51	57003	53	700491-Z3	9	70084-C3	9	70151	10	70163-C3	10				
53903-F	27	544906	50	545200	49	549931	51	57003-R	53	70058-02	9	70084-Z3	9	70151-C3	10	70163-PC	8				
53903-2	27	544907	50	545201	49	549932	51	57005	53	70058-02-C3	9	70085	9	70151-Z3	10	70163-Z3	10				
53904	44	544908	50	545203	49	549933	51	57005-R	53	70058-02-Z3	9	70085-C3	9	70152	10	70164	10				
53904SH	44	544911	50	545204	49	549935	51	57007	53	70058-03	9	70085-Z3	9	70152-C3	10	70164-C3	10				
53904Z3	44	544912	50	545236	49	549951	51	57007-R	53	70058-03-C3	9	70086	9	70152-Z3	10	70164-PC	8				
53905	29	544913	50	545238	49	549952	51	57041	53	70058-03-Z3	9	70086-C3	9	70153	10	70164-Z3	10				

ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG
70165	10	70248-C3	10	70267-05	11	70297-Z3	11	70344	11	70438-C3	12	70550-Z3	12	70572-Z3	12	70666	13
70165-C3	10	70248-Z3	10	70267-05-C3	11	70298	11	70344-C3	11	70438-Z3	12	70551	12	70573	12	70666-C3	13
70165-PC	8	70249	10	70267-05-Z3	11	70298-C3	11	70344-Z3	11	70439	12	70551-C3	12	70573-C3	12	70666-Z3	13
70165-Z3	10	70249-C3	10	70267-06	11	70298-Z3	11	70345	11	70439-C3	12	70551-Z3	12	70573-Z3	12	70667	13
70166	10	70249-Z3	10	70267-06-C3	11	70299	11	70345-C3	11	70439-Z3	12	70552	12	70574	12	70668	13
70166-C3	10	70250	10	70267-06-Z3	11	70299-C3	11	70345-Z3	11	70440	12	70552-C3	12	70574-C3	12	70668-C3	13
70166-PC	8	70250-C3	10	70267-07	11	70299-Z3	11	70346	11	70440-C3	12	70552-Z3	12	70574-Z3	12	70668-Z3	13
70166-Z3	10	70250-Z3	10	70267-07-C3	11	70300	11	70346-C3	11	70440-Z3	12	70556-02	12	70582	13	70690	13
70167	10	70251	10	70267-07-Z3	11	70300-C3	11	70346-Z3	11	70441	12	70556-02-C3	12	70582-C3	13	70690-C3	13
70167-C3	10	70251-C3	10	70267-08	11	70300-Z3	11	70347	11	70441-C3	12	70556-02-Z3	12	70582-Z3	13	70690-Z3	13
70167-PC	8	70251-Z3	10	70267-08-C3	11	70318	11	70347-C3	11	70441-Z3	12	70556-03	12	70584	13	70691	13
70167-Z3	10	70252	10	70267-08-Z3	11	70318-C3	11	70347-Z3	11	70442	12	70556-03-C3	12	70584-C3	13	70691-C3	13
70168	10	70252-C3	10	70268-02	11	70318-PC	8	70348	11	70442-C3	12	70556-03-Z3	12	70584-Z3	13	70691-Z3	13
70168-C3	10	70252-Z3	10	70268-02-C3	11	70318-Z3	11	70348-C3	11	70442-Z3	12	70556-04	12	70585	13	70692	13
70168-PC	8	70258	10	70268-02-Z3	11	70319	11	70348-Z3	11	70443	12	70556-04-C3	12	70585-C3	13	70692-C3	13
70168-Z3	10	70258-C3	10	70268-03	11	70319-C3	11	70378	11	70443-C3	12	70556-04-Z3	12	70585-Z3	13	70692-Z3	13
70190-02	10	70258-Z3	10	70268-03-C3	11	70319-PC	8	70378-C3	11	70443-Z3	12	70556-05	12	70586	13	70693	13
70190-02-C3	10	70259	10	70268-03-Z3	11	70319-Z3	11	70378-PC	8	70444	12	70556-05-Z3	12	70586-C3	13	70693-C3	13
70190-02-Z3	10	70259-C3	10	70268-04	11	70320	11	70378-Z3	11	70444-C3	12	70556-06	12	70586-Z3	13	70693-Z3	13
70190-03	10	70259-Z3	10	70268-04-C3	11	70320-C3	11	70379	11	70444-Z3	12	70556-06-C3	12	70587	13	70694	13
70190-03-C3	10	70260	10	70268-04-Z3	11	70320-PC	8	70379-C3	11	70450	12	70556-06-Z3	12	70587-C3	13	70694-C3	13
70190-03-Z3	10	70260-C3	10	70268-05	11	70320-Z3	11	70379-PC	8	70450-C3	12	70556-07	12	70587-Z3	13	70694-Z3	13
70190-04	10	70260-Z3	10	70268-05-C3	11	70321	11	70379-Z3	11	70450-Z3	12	70556-07-C3	12	70589	13	70695	13
70190-04-C3	10	70261	10	70268-05-Z3	11	70321-C3	11	70380	11	70522	12	70556-07-Z3	12	70589-C3	13	70695-C3	13
70190-04-Z3	10	70261-C3	10	70268-06	11	70321-PC	8	70380-C3	11	70522-C3	12	70556-08	12	70589-Z3	13	70695-Z3	13
70190-05	10	70261-Z3	10	70268-06-C3	11	70321-Z3	11	70380-PC	8	70522-PC	8	70556-08-C3	12	70642	13	70696	13
70190-05-C3	10	70262	10	70268-06-Z3	11	70322	11	70380-Z3	11	70522-Z3	12	70556-08-Z3	12	70642-C3	13	70696-C3	13
70190-05-Z3	10	70262-C3	10	70268-07	11	70322-C3	11	70381	11	70523	12	70557	12	70642-PC	8	70696-Z3	13
70190-06	10	70262-Z3	10	70268-07-C3	11	70322-PC	8	70381-C3	11	70523-C3	12	70557-C3	12	70642-Z3	13	70738	13
70190-06-C3	10	70263	10	70268-07-Z3	11	70322-Z3	11	70381-PC	8	70523-PC	8	70557-Z3	12	70643	13	70738-C3	13
70190-06-Z3	10	70263-C3	10	70268-08	11	70323	11	70381-Z3	11	70523-Z3	12	70558	12	70643-C3	13	70738-PC	8
70190-07	10	70263-Z3	10	70268-08-C3	11	70323-C3	11	70382	11	70524	12	70558-C3	12	70643-PC	8	70738-Z3	13
70190-07-C3	10	70264	10	70268-08-Z3	11	70323-PC	8	70382-C3	11	70524-C3	12	70558-Z3	12	70643-Z3	13	70739	13
70190-07-Z3	10	70264-C3	10	70276	11	70323-Z3	11	70382-PC	8	70524-PC	8	70559	12	70644	13	70739-C3	13
70190-08	10	70264-Z3	10	70276-C3	11	70324	11	70382-Z3	11	70524-Z3	12	70559-C3	12	70644-C3	13	70739-PC	8
70190-08-C3	10	702661-02	10	70276-Z3	11	70324-C3	11	70383	11	70525	12	70559-Z3	12	70644-PC	8	70739-Z3	13
70190-08-Z3	10	702661-02-C3	10	70277	11	70324-PC	8	70383-C3	11	70525-C3	12	70560	12	70644-Z3	13	70740	13
70202	10	702661-02-Z3	10	70277-C3	11	70324-Z3	11	70383-PC	8	70525-PC	8	70560-C3	12	70645	13	70740-C3	13
70202-C3	10	702661-03	10	70277-Z3	11	70330	11	70383-Z3	11	70525-Z3	12	70560-Z3	12	70645-C3	13	70740-PC	8
70202-Z3	10	702661-03-C3	10	70278	11	70330-C3	11	70384	11	70526	12	70561	12	70645-PC	8	70740-Z3	13
70203	10	702661-03-Z3	10	70278-C3	11	70330-Z3	11	70384-C3	11	70526-C3	12	70561-C3	12	70645-Z3	13	70741	13
70203-C3	10	702661-04	10	70278-Z3	11	70331	11	70384-PC	8	70526-PC	8	70561-Z3	12	70646	13	70741-C3	13
70203-Z3	10	702661-04-C3	10	70279	11	70331-C3	11	70384-Z3	11	70526-Z3	12	70562	12	70646-C3	13	70741-PC	8
70204	10	702661-04-Z3	10	70279-C3	11	70331-Z3	11	70426	11	70527	12	70562-C3	12	70646-PC	8	70741-Z3	13
70204-C3	10	702661-05	10	70279-Z3	11	70332	11	70426-C3	11	70527-C3	12	70562-Z3	12	70646-Z3	13	70742	13
70204-Z3	10	702661-05-C3	10	70280	11	70332-C3	11	70426-Z3	12	70527-PC	8	70563	12	70647	13	70742-C3	13
70205	10	702661-05-Z3	10	70280-C3	11	70332-Z3	11	70427	12	70527-Z3	12	70563-C3	12	70647-C3	13	70742-PC	8
70205-C3	10	702661-06	10	70280-Z3	11	70333	11	70427-C3	12	70528	12	70563-Z3	12	70647-PC	8	70742-Z3	13
70205-Z3	10	702661-06-C3	10	70281	11	70333-C3	11	70427-Z3	12	70528-C3	12	70564	12	70647-Z3	13	70743	13
70206	10	702661-06-Z3	10	70281-C3	11	70333-Z3	11	70428	12	70528-PC	8	70564-C3	12	70648	13	70743-C3	13
70206-C3	10	702661-07	10	70281-Z3	11	70334	11	70428-C3	12	70528-Z3	12	70564-Z3	12	70648-C3	13	70743-PC	8
70206-Z3	10	702661-07-C3	10	70282	11	70334-C3	11	70428-Z3	12	70546	12	705701-02	12	70648-PC	8	70743-Z3	13
70207	10	702661-07-Z3	10	70282-C3	11	70334-Z3	11	70429	12	70546-C3	12	705701-02-C3	12	70648-Z3	13	70744	13
70207-C3	10	702661-08	10	70282-Z3	11	70335	11	70429-C3	12	70546-Z3	12	705701-02-Z3	12	70662	13	70744-C3	13
70207-Z3	10	702661-08-C3	10	70294	11	70335-C3	11	70429-Z3	12	70547	12	705701-03	12	70662-C3	13	70744-PC	8
70208	10	702661-08-Z3	10	70294-C3	11	70335-Z3	11	70430	12	70547-C3	12	705701-03-C3	12	70662-Z3	13	70744-Z3	13
70208-C3	10	70267-02	11	70294-Z3	11	70336	11	70430-C3	12	70547-Z3	12	705701-03-Z3	12	70663	13	70762	13
70208-Z3	10	70267-02-C3	11	70295	11	70336-C3	11	70430-Z3	12	70548	12	705701-04	12	70663-C3	13	70762-C3	13
70246	10	70267-02-Z3	11	70295-C3	11	70336-Z3	11	70431	12	70548-C3	12	705701-04-C3	12	70663-Z3	13	70762-PC	8
70246-C3	10	70267-03	11	70295-Z3	11	70342	11	70431-C3	12	70548-Z3	12	705701-04-Z3	12	70664	13	70762-Z3	13
70246-Z3	10	70267-03-C3	11	70296	11	70342-C3	11	70431-Z3	12	70549	12	70571	12	70664-C3	13	70763	13
70247	10	70267-03-Z3	11	70296-C3	11	70342-Z3	11	70432	12	70549-C3	12	70571-C3	12	70664-Z3	13	70763-C3	13
70247-C3	10	70267-04	11	70296-Z3	11	70343	11	70432-C3	12	70549-Z3	12	70571-Z3	12	70665	13	70763-PC	8
70247-Z3	10	70267-04-C3	11	70297	11	70343-C3	11	70432-Z3	12	70550	12	70572	12	70665-C3	13	70763-Z3	13
70248	10	70267-04-Z3	11	70297-C3	11	70343-Z3	11	70438	12	70550-C3	12	70572-C3	12	70665-Z3	13	70764	13

ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG
70764-C3	13	70794-C3	13	70884	14	71026-C3	14	71080-03	14	72288	16	73151	35
70764-PC	8	70794-Z3	13	70884-C3	14	71026-Z3	14	71080-03-C3	14	72289	16	73152	35
70764-Z3	13	70794-04	13	70884-Z3	14	71027	14	71080-03-Z3	14	72290	16	73153	35
70765	13	70794-04-C3	13	70885	14	71027-C3	14	71080-05	14	72291	16	73154	35
70765-C3	13	70794-04-Z3	13	70885-C3	14	71027-Z3	14	71080-05-C3	14	72307	16	73155	35
70765-PC	8	70795	13	70885-Z3	14	71028	14	71080-05-Z3	14	72308	16	73156	35
70765-Z3	13	70795-C3	13	70886	14	71028-C3	14	71080-06	14	72309	16	73157	35
70766	13	70795-Z3	13	70886-C3	14	71028-Z3	14	71080-06-C3	14	72310	16	73158	35
70766-C3	13	70796-06	13	70886-Z3	14	71029	14	71080-06-Z3	14	72311	16	73159	35
70766-PC	8	70796-06-C3	13	70887	14	71029-C3	14	71080-07	14	72312	16	73164	35
70766-Z3	13	70796-06-Z3	13	70887-C3	14	71029-Z3	14	71080-07-C3	14	72313	16	73165	35
70767	13	70796-07	13	70887-Z3	14	71030	14	71080-07-Z3	14	72314	16	73166	35
70767-C3	13	70796-07-C3	13	70888	14	71030-C3	14	71080-08	14	72396	16	73167	35
70767-PC	8	70796-07-Z3	13	70888-C3	14	71030-Z3	14	71080-08-C3	14	72397	16	73168	35
70767-Z3	13	70796-08	13	70888-Z3	14	71031	14	71080-08-Z3	14	72453	16	73169	35
70768	13	70796-08-C3	13	70918	14	71031-C3	14	71086	14	72454	16	73170	35
70768-C3	13	70796-08-Z3	13	70918-C3	14	71031-Z3	14	71086-C3	14	72455	16	73171	35
70768-PC	8	70802	13	70918-Z3	14	71032	14	71086-Z3	14	72456	16	73172	35
70768-Z3	13	70802-C3	13	70919	14	71032-C3	14	71087	14	72457	16	73173	35
707751-02	13	70802-Z3	13	70919-C3	14	71032-Z3	14	71087-C3	14	72458	16	73174	35
707751-02-C3	13	70803	13	70919-Z3	14	71036-02	14	71087-Z3	14	73034	35	73193	35
707751-02-Z3	13	70803-C3	13	70920	14	71036-02-C3	14	71088	14	73035	35	73194	35
707751-03	13	70803-Z3	13	70920-C3	14	71036-02-Z3	14	71088-C3	14	73036	35	73195	35
707751-03-C3	13	70804	13	70920-Z3	14	71036-03	14	71088-Z3	14	73037	35	73461	36
707751-03-Z3	13	70804-C3	13	70921	14	71036-03-C3	14	71089	14	73038	35	73462	36
707751-04	13	70804-Z3	13	70921-C3	14	71036-03-Z3	14	71089-C3	14	73039	35	73463	36
707751-04-C3	13	70805	13	70921-Z3	14	71036-04	14	71089-Z3	14	73040	35	73464	36
707751-04-Z3	13	70805-C3	13	70922	14	71036-04-C3	14	71090	14	73041	35	73465	36
707751-05	13	70805-Z3	13	70922-C3	14	71036-04-Z3	14	71090-C3	14	73042	35	73466	36
707751-05-C3	13	70806	13	70922-Z3	14	71036-05	14	71090-Z3	14	73043	35	73467	36
707751-05-Z3	13	70806-C3	13	70923	14	71036-05-C3	14	71091	14	73044	35	73468	36
707751-06	13	70806-Z3	13	70923-C3	14	71036-05-Z3	14	71091-C3	14	73049	35	73469	36
707751-06-C3	13	70807	13	70923-Z3	14	71037	14	71091-Z3	14	73050	35	73471	36
707751-06-Z3	13	70807-C3	13	70924	14	71037-C3	14	71092	14	73051	35	73473	36
707751-07	13	70807-Z3	13	70924-C3	14	71037-Z3	14	71092-C3	14	73052	35	73479	36
707751-07-C3	13	70808	13	70924-Z3	14	71038	14	71092-Z3	14	73053	35	73480	36
707751-07-Z3	13	70808-C3	13	70990	14	71038-C3	14	72144	16	73054	35	73481	36
707751-08	13	70808-Z3	13	70990-C3	14	71038-Z3	14	72145	16	73055	35	73482	36
707751-08-C3	13	70825	14	70990-PC	8	71039	14	72146	16	73056	35	73483	36
707751-08-Z3	13	70825-C3	14	70990-Z3	14	71039-C3	14	72147	16	73058	35	73484	36
70786	13	70825-Z3	14	70991	14	71039-Z3	14	72148	16	73059	35	73485	36
70786-C3	13	70826	14	70991-C3	14	710730-02	14	72149	16	73064	35	73487	36
70786-Z3	13	70826-C3	14	70991-PC	8	710730-02-C3	14	72150	16	73065	35	73489	36
70787	13	70826-Z3	14	70991-Z3	14	710730-02-Z3	14	72151	16	73066	35	73491	36
70787-C3	13	70827	14	70992	14	710730-03	14	72155	16	73067	35	73509	36
70787-Z3	13	70827-C3	14	70992-C3	14	710730-03-C3	14	72156	16	73068	35	73510	36
70788	13	70827-Z3	14	70992-PC	8	710730-03-Z3	14	72157	16	73069	35	73511	36
70788-C3	13	70828	14	70992-Z3	14	710730-04	14	72158	16	73070	35	73512	36
70788-Z3	13	70828-C3	14	70993	14	710730-04-C3	14	72159	16	73071	35	73513	36
70789	13	70828-Z3	14	70993-C3	14	710730-04-Z3	14	72160	16	73072	35	73514	36
70789-C3	13	70829	14	70993-PC	8	710730-05	14	72161	16	73073	35	73515	36
70789-Z3	13	70829-C3	14	70993-Z3	14	710730-05-C3	14	72162	16	73074	35	73517	36
70790	13	70829-Z3	14	70994	14	710730-05-Z3	14	72232	16	73134	35	73519	36
70790-C3	13	70830	14	70994-C3	14	710730-06	14	72233	16	73135	35	73521	36
70790-Z3	13	70830-C3	14	70994-PC	8	710730-06-C3	14	72234	16	73136	35	73524	36
70791	13	70830-Z3	14	70994-Z3	14	710730-06-Z3	14	72235	16	73137	35	73525	36
70791-C3	13	70831	14	70995	14	710730-07	14	72236	16	73138	35	73526	36
70791-Z3	13	70831-C3	14	70995-C3	14	710730-07-C3	14	72237	16	73139	35	73527	36
70792	13	70891-Z3	14	70995-PC	8	710730-07-A3	14	72238	16	73140	35	73528	36
70792-C3	13	70882	14	70995-Z3	14	710730-08	14	72239	16	73141	35	73529	36
70792-Z3	13	70882-C3	14	70996	14	710730-08-C3	14	72241	16	73142	35	73530	36
70793	13	70882-Z3	14	70996-C3	14	710730-08-Z3	14	72284	16	73143	35	73532	36
70793-C3	13	70883	14	70996-PC	8	71080-02	14	72285	16	73144	35	73534	36
70793-Z3	13	70883-C3	14	70996-Z3	14	71080-02-C3	14	72286	16	73149	35	73536	36
70794	13	70883-Z3	14	71026	14	71080-02-Z3	14	72287	16	73150	35	73569	36

ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG	ITEM NO.	PG				
80040	40	80475	40	80880	40	81285	40	81690	40	82035	40	82440	40	82845	40	87743-C	39
80055	40	80490	40	80895	40	81300	40	81705	40	82050	40	82455	40	82860	40	87743-Z	39
80070	40	80505	40	80910	40	81315	40	81716	52	82065	40	82470	40	82875	40	87746	39
80085	40	80520	40	80925	40	81330	40	81717	52	82080	40	82485	40	82890	40	87770	39
80100	40	80531	52	80940	40	81345	40	81720	40	82095	40	82500	40	82905	40	87770-27	39
80115	40	80532	52	80955	40	81360	40	81735	40	82110	40	82515	40	82920	40	87781	39
80130	40	80535	40	80970	40	81375	40	81746	52	82125	40	82530	40	82935	40	87781-27	39
80145	40	80550	40	80985	40	81390	40	81747	52	82140	40	82545	40	87721	39	88103	38
80160	40	80565	40	81000	40	81405	40	81750	40	82155	40	82560	40	87721-Z	39	88103-5	38
80175	40	80580	40	81015	40	81420	40	81765	40	82170	40	82575	40	87722	39	88104	38
80190	40	80595	40	81030	40	81435	40	81780	40	82185	40	82590	40	87722-Z	39	88104-5	38
80205	40	80610	40	81045	40	81450	40	81795	40	82200	40	82605	40	87723	39	88105	38
80220	40	80625	40	81060	40	81465	40	81810	40	82215	40	82620	40	87724	39	88105-5	38
80235	40	80640	40	81075	40	81480	40	81825	40	82230	40	82635	40	87725	39	88106	38
80250	40	80655	40	81090	40	81495	40	81840	40	82245	40	82646	52	87725-C	39	88106-5	38
80265	40	80670	40	81101	52	81510	40	81855	40	82260	40	82647	52	87725-Z	39	88107	38
80280	40	80685	40	81102	52	81521	52	81870	40	82275	40	82650	40	87726	39	88107-5	38
80295	40	80700	40	81105	40	81522	52	81885	40	82290	40	82665	40	87726-C	39	88108	38
80310	40	80715	40	81120	40	81525	40	81900	40	82305	40	82680	40	87726-Z	39	88108-5	38
80325	40	80730	40	81135	40	81540	40	81901	52	82320	40	82695	40	87728	39	88109	38
80340	40	80745	40	81150	40	81555	40	81902	52	82335	40	82710	40	87729	39	88109-5	38
80355	40	80760	40	81165	40	81570	40	81915	40	82350	40	82725	40	87731	39	88112	38
80370	40	80775	40	81180	40	81585	40	81930	40	82356	52	82740	40	87738	39	88112-5	38
80385	40	80790	40	81195	40	81600	40	81945	40	82357	52	82755	40	87739	39	88115	38
80400	40	80805	40	81210	40	81615	40	81960	40	82365	40	82770	40	87741	39	88115-5	38
80415	40	80820	40	81225	40	81630	40	81975	40	82380	40	82785	40	87742	39	88118	38
80430	40	80835	40	81240	40	81645	40	81990	40	82395	40	82800	40	87742-C	39	88118-5	38
80445	40	80850	40	81255	40	81660	40	82005	40	82410	40	82815	40	87742-Z	39		
80460	40	80865	40	81270	40	81675	40	82020	40	82425	40	82830	40	87743	39		

Notes

Terms / Conditions

Minimum Order: No minimum dollar amount, simply order in standard box quantities!

Standard Packages: Each product is sold in standard package quantities only.

Freight: Orders totaling \$500 or more net, will ship Freight Prepaid & Allowed via our choice of carrier. Orders less than \$500 net, will ship Freight Prepaid & Added. UPS Collect is also available. Blanket orders must meet \$500 net per release, to have Freight Prepaid & Allowed.

Payment Terms: 1% 10, Net 30. Any account exceeding 60 days, will be placed on credit hold.

Returned Goods / Stock Rotation: Please contact our customer service department to obtain an "RGA" number prior to returning any merchandise. Authorized returns are subject to a \$15 or 15% restock / repackaging fee (whichever is greater). Merchandise older than 6 months is not returnable.

"Bold Italic" part numbers: are considered "Popular Stock Items." Many other part numbers that are not bold, may also be in stock - but not in large quantities and may not be returnable if ordered in error.

Electronic Files: This Consumer Catalog is also available in Adobe PDF format. The Adobe version includes links which allow you to "click" on an item in the index to jump to that page. "Return to Index" buttons are also shown on each page to allow you to search for your next item. Searches can also be performed by part number or description. Our price list is available in Excel format.

Shortages: all shortages should be reported to Preferred's customer service department within 5 business days of receipt of shipment.

This publication supersedes all other Preferred Abrasives price lists published prior to May 1, 2013. We reserve the right to correct printing errors, should they occur. Prices are subject to change without notice.

How To Contact Us: 8:00 AM to 5:00 PM Eastern

E-mail / Web

Toll Free: 800.729.5702
Phone: 937.332.8855
Fax: 937.332.8854

sales@preferredabrasives.com
www.preferredabrasives.com



Green Piranha

T-27 Depressed Center
Grinding Wheels & Cut-Off Wheels

Save time, save money. The Green Piranha eats metal fast.

High Performance Proprietary Grain - Long Life & VERY FAST CUTTING
Unique Bonding & Wheel Design - Less chatter, smoother and quieter grinding with more control.

800.729.5702
www.preferredabrasives.com

Part numbers in
Bold Italic are stock

**PREFERRED
ABRASIVES, INC.**

**Product
Catalog**



“Professional Grade Sandpaper”

66 Industry Ct. Suite B
Troy, Ohio 45373
800.729.5702

P: 937.332.8855 / F: 937.332.8854
www.preferredabrasives.com

Catalog #6