

KLINGSPOR METALWORKING GUIDE

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- flap discs
- bonded abrasives
- quick change discs
- abrasive belts
- abrasive rolls
- abrasive sheets
- abrasive flapwheels
- non woven abrasives
- abrasive discs
- safety products
- power tools



KLINGSPOR
The Most Sanding Power for Your Money Since 1893!®

www.klingspor.com



KLINGSPOR – THE NAME FOR QUALITY

The KLINGSPOR name has long been revered in the metal working industry. It says quality...it says innovation...it says diversity...it says years of dedication to the business. The KLINGSPOR name is synonymous with integrity, quality service and support and always strives to provide you with *The Most Sanding and Grinding Power For Your Money.*

With one of the most diverse lines of abrasives, grinding discs, cut-off wheels and tools for metal products manufacturers, KLINGSPOR continues to be the “go to” company for the best in grinding and finishing materials. Our renowned quality assures that you’ll achieve the very best finish. The staple products that thousands of manufacturers have relied on for years continue to perform at the top of competitive tests and our new products will be sure to impress as well.

Several new products in the grinding cutting areas are being introduced with this catalog release. Look for the “new” designations as you look through this catalog.

You can always count on KLINGSPOR to fulfill your abrasives needs for virtually any metal working application.

KLINGSPOR REFERENCE

KLINGSPOR has always offered numerous resources to its customers. Now, more than ever, people want to know about the companies they are dealing with and exactly what products and services they can expect to receive. Because abrasives are highly technical, KLINGSPOR provides detailed information that explains the product and its uses.

KLINGSPOR produces catalogs, price lists and reference guides for many different markets - some of which are shown below. Others are available for specific market segments and product lines. If you have a need in a different market, contact us and we will attempt to offer you the appropriate information.



Woodworking Price Guide



Automotive Supplement Guide



Safety Precautions



Dynabrade Power Tools



Safety Products



klingspor.com

THE SAFE USE OF KLINGSPOR ABRASIVE PRODUCTS

For your own safety and for the optimum use of our Abrasive products please comply with the following safety recommendations. Each product is labeled with the appropriate safety pictograms.



Wear safety goggles or glasses to protect the eyes



Wear a dust mask



Wear safety gloves to protect hands



Use ear muffs



Observe safety instructions



Do not use for wet grinding

KLINGSPOR ABRASIVES



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TERMS AND CONDITIONS

TERMS: Minimum \$50.00 order. Net 30 days from date of invoice. Invoices not paid within terms will be considered delinquent, and any orders will be placed on hold until delinquent invoices are paid.

DELIVERY: Single order shipments to one destination totaling \$300.00 or more will be shipped F.O.B. destination via carrier of our choice, continental U.S. only. Orders under \$300.00 will be shipped F.O.B. KLINGSPOR Distribution Point, continental U.S. only.

ALASKA & HAWAII SHIPMENTS: Shipments to Alaska or Hawaii will be prepaid only to the point of embarkation within the continental U.S., provided above conditions are met. NOTE: KLINGSPOR ABRASIVES cannot be held accountable for delays once an order is released to a carrier.

QUANTITY VARIANCE: Because of the nature of the manufacturing process, a ±10% variance will be allowed by the buyer to the manufacturer.

PRICING: All prices in this catalog are subject to correction and change without notice. All computer invoice extensions have been calculated utilizing two decimal places; therefore, there is the possibility that variations, however minor, may occur due to rounding, and shall be allowed by the buyer.

RETURN POLICY: Returns of merchandise will be accepted only with prior return authorization. Custom size items cannot be returned. All products authorized for return must be properly packaged and returned freight prepaid and in original packaging in re-sellable condition. We are not responsible for items ordered in error or overstocked; if any exceptions are made, a 15% restocking fee will apply. Material non-refundable after one year.

PRODUCT WARRANTY: KLINGSPOR ABRASIVES, Inc. warrants all products to be free from defects for up to one year. If any KLINGSPOR products are found to be defective, buyer's sole and exclusive remedy will be the replacement of any such products or, at KLINGSPOR's option, the refund of buyer's purchase price for said products. In any event, KLINGSPOR shall not be liable for any consequential damages.





ABRASIVE FLAP DISCS

Flap Discs have become commonplace in many production facilities and job shops.



KLINGSPOR, an early innovator of the flap disc design, continues to be at the forefront in developing new types of these versatile discs. Effective for multitudes of grinding and finishing operations, KLINGSPOR Flap Discs will be one of your most-used abrasive tools for grinding welds, smoothing out pits, removing slag and flash, and a host of other metal grinding situations. The line includes specialty discs, as well as high performance discs and discs that offer economical efficiency.

Several different designs offer the user ways to enhance both the performance of the disc and the final results left on the workpiece. Choose from shapes in flat, 6° convex shape, or 12° convex shape. Flat discs are best suited for use on flat surfaces and on edges. The 6° convex shape allows for use on flat or slightly contoured surfaces, while the 12° convex shape is perfect for contoured surfaces.



Quick Change Flap Discs

Simply affix the die-cast backing plate to your angle grinder using a standard locking nut and leave it there. Then the CMT "loadings" are locked into place with a quick turn of the wrist. No tools are necessary to accomplish the task, which only takes seconds. When a new grinding surface is needed or when grits need to be changed, twist the CMT off and put a new one on. No more fumbling with the grinder's locking nut each time - twist on, twist off. Sold in boxes of 10.

CMT 726 - ALUMINA ZIRCONIA



Size	Max RPM	120 Grit	80 Grit	60 Grit	40 Grit
4 1/2" Box Qty 10 per each	10,000	\$5.41	\$5.41	\$5.41	\$5.41

PRICE PER EACH



CMT 728 - ALUMINA ZIRCONIA



Size	Max RPM	120 Grit	80 Grit	60 Grit	40 Grit
4 1/2" Box Qty 10 per each	10,000	\$5.41	\$5.41	\$5.41	\$5.41

PRICE PER EACH



CMT 730 - MULTIBOND ALUMINA ZIRCONIA



Size	Max RPM	120 Grit	80 Grit	60 Grit	40 Grit
4 1/2" Box Qty 10 per each	10,000	\$6.27	\$6.27	\$6.27	\$6.27

PRICE PER EACH



CMT 800 - NON WOVEN



Size	Max RPM	Coarse	Medium	Very Fine
4 1/2" Box Qty 10 per each	10,000	\$10.19	\$10.19	\$10.19

PRICE PER EACH



ADJUSTABLE SPANNER WRENCH

#BPS900001\$15.68



4 1/2" BACKING PLATE:\$5.41



Observe appropriate safety regulations. Use eye, face, hearing, respiratory, hand and body protection when using abrasive products.

Easy to change in just a few simple steps.



Special "channels" ensure that the CMT is securely locked in place.



The steel CMT backing plate.



Place the backing plate on your angle grinder.



CMT backing plate on angle grinder.



Use your standard locking nut to fasten the backing plate in place.



Match the CMT "loading" to the backing plate.

SMT 618

This flap disc utilizes a tough plastic fibre-reinforced backing plate for more aggressive grinding possibilities. The flat shape makes this model most suitable for grinding flat surfaces. The SMT 618 is made with our exceptionally durable ALUMINA ZIRCONIA - perfect for most metal surfaces. Sold in boxes of 10.



Size	Available Grits	Price Each
4 1/2"	80, 60, 40	\$5.96

SMT 619

With the same tough plastic backing plate and the same durable ALUMINA ZIRCONIA material as the SMT 618, the SMT 619 offers a 12° convex form for grinding contoured metal surfaces. Sold in boxes of 10.



Size	Available Grits	Price Each
4 1/2"	80, 60, 40	\$5.96

SMT 624

The SMT 624 alumina zirconia disc utilizes a 12° angled backing plate. This will enable the disc to be used on more severely curved surfaces like pipes and storage tanks. Sold in boxes of 10.



Size	Available Grits	Price Each
4 1/2"	120, 80, 60, 50, 40, 36	\$6.85
7"	120, 80, 60, 50, 40, 36	\$12.73

SMT 626

This tough alumina zirconia disc has a slight 6° convex form for use on flat or slightly contoured parts and on edges. Sold in boxes of 10.



Size	Available Grits	Price Each
4"	120, 80, 60, 50, 40	\$6.46
4 1/2"	120, 80, 60, 50, 40, 36	\$6.85
7"	120, 80, 60, 50, 40, 36	\$12.73

SMT 627

The SMT 627 makes use of aluminum oxide grains on the flaps. This makes a flap disc that has more uses in applications involving paint and non-ferrous metals. The 12° angle of the disc allows use on contoured parts and flat parts alike. Sold in boxes of 10.



Size	Available Grits	Price Each
4 1/2"	120, 80, 60, 40, 36	\$6.85
7"	120, 80, 60, 50, 40, 36	\$12.73

SMT 628

The SMT 628 is a flat-shaped version which makes it versatile for grinding on flat surfaces. Also made with our durable alumina zirconia grains. Sold in boxes of 10.



Size	Available Grits	Price Each
4 1/2"	120, 80, 60, 40, 36, 24	\$6.85
7"	120, 80, 60, 50, 40, 36, 24	\$12.73

SMT 630

Our popular SMT 630 alumina zirconia flap disc with a multibond lubricant now has a new backing plate structure. It is a consumable fibre-reinforced backing just like our other SMT flap discs and with a 12° convex angle. The 630 is best-suited for cooler edge grinding of stainless steel. Sold in boxes of 10.



Size	Available Grits	Price Each
4 1/2"	80, 60, 40, 36	\$7.83
5"	80, 60, 40, 36	\$9.90
7"	80, 60, 40, 36	\$13.73

NEW LOW PRICE:
5/8"-11 hubs only
\$2.00 each

MAXIMUM RPM'S: 4": 15,300 4 1/2": 13,300 5": 12,000 7": 8,500

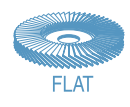




SMT 640 - with built-in 5/8"-11 hole and thread

Ease of use and mounting become factors in production shops and in environments where training time is minimal. To help with this, Klingspor has come up with the latest and greatest in its SMT Flap Disc line - the SMT 640. What's so great? Well, the center hole of the disc is threaded with the proper 5/8"- 11 hole and threading dimensions. Forget the hassle of the mounting nut - try the SMT 640 Flap Disc - another innovation from Klingspor.

The SMT 640 is a flat disc with our premium alumina zirconia material and is suitable for use on the same materials and in the same applications as our other flat SMT flap discs. Sold in boxes of 10.



Size	Available Grits	Price Each
4 1/2" 5/8"-11	80, 60, 50, 40, 36, 24	\$6.85

SMT 650 JUMBO FLAPDISC

Here's our longest lasting flap disc ever - the SMT 650 alumina zirconia disc. This is a double-thick disc that offers twice the grinding power and substantially less downtime from disc changing. We like to call the SMT 650 the "JUMBO". Sold in boxes of 10.



MAXIMUM RPM'S: 4 1/2": 13,000

Size	Available Grits	Price Each
4 1/2"	80, 60, 40, 36	\$7.83



SMT 656 From the inventors of the flap disc comes the highest performing flap disc ever produced.

This convex shaped disc utilizes an enhanced abrasive material made specifically for the applications where the SMT 656 will be most effective. When used on stainless steel or steels of all types, you'll realize a 50% longer service life, 50% higher stock removal, and 50% overall improved efficiency. Compare that with any other flap disc made by any other manufacturer. These are available in the most commonly used grits for steel. Sold in boxes of 10.

**NEW LOW PRICE:
 5/8"-11 hubs only \$2.00**



MAXIMUM RPM'S: 4 1/2": 13,300

Size	Available Grits	Price Each
4 1/2"	80, 60, 40	\$7.83

SMT 800 NON WOVEN FLAP DISC The flexibility of non-wovens in a flap disc.

High quality non-woven web abrasive mop disc for finishing work. Depending on the degree of hardness, these are also suited for cleaning and light de-burring work and the processing of TIG-welded seams on stainless steel. The SMT 800 will also leave a pleasant finish on most metals and steels. Sold in boxes of 5.



MAXIMUM RPM'S: 4 1/2": 13,300

Size	Available Grits	Price Each
4 1/2"	Coarse, Medium, Very Fine	\$13.33

PLEASE SPECIFY

**NEW LOW PRICE:
 5/8"-11 hubs only \$2.00**

NCD 200 POWER WHEEL FLAP DISC Powerful cleaning with the design of a flap disc.

Here's a disc that will clean rust, scale, paint, varnishes, or other surface imperfections. The NCD 200 is made of a coarse cleaning material imbedded with silicon carbide grains - the most effective for aggressive cleaning and removal applications. The high edge strength allows you to apply the necessary pressure without damaging the disc. 4-1/2". Sold in boxes of 5.



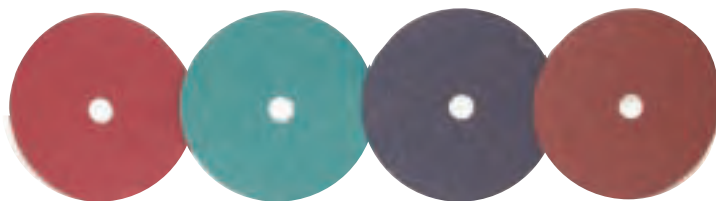
MAXIMUM RPM'S: 4 1/2": 11,000

Size	Price Each
4 1/2"	\$15.23

Fibre Discs

CS 561 ALUMINUM OXIDE FIBRE DISCS

These aluminum oxide discs are perfect for most metal grinding applications where major stock removal is NOT necessary. Removal of surface contaminants and smoothing of mild weld seams are the CS 561's forte.



PRICE PER BOX

Diameter	Box Quantity	Max RPM	80 Grit & Finer	60 Grit	50 Grit	40 Grit	36 Grit	24 Grit	16 Grit
4" x 5/8"	25	14,400	\$20.09	\$21.85	\$22.88	\$23.89	\$24.60	\$25.28	\$31.54
4 1/2" x 7/8"	25	13,300	22.16	23.89	24.60	25.67	26.32	27.37	34.30
5" x 7/8"	25	12,200	24.60	25.67	27.37	28.41	29.10	30.14	38.81
7" x 7/8"	25	8,600	38.81	41.23	42.23	44.69	45.73	47.46	59.94
9" x 7/8"	25	6,600	50.94	54.40	57.17	58.91	60.62	62.38	80.04

CS 565 ALUMINA ZIRCONIA FIBRE DISCS

For heavier stock removal and faster cutting, the CS 565 cannot be beat. The tough alumina zirconia grains cut with a vengeance to take your workpiece to a more finished state.

PRICE PER BOX

Diameter	Box Quantity	Max RPM	100/80 Grit	60 Grit	50 Grit	36 Grit	24 Grit
4 1/2" x 7/8"	25	13,300	\$28.41	\$30.26	\$31.39	\$34.30	\$36.02
5" x 7/8"	25	12,200	36.02	37.77	39.50	42.97	45.05
7" x 7/8"	25	8,600	50.23	53.00	54.40	59.26	61.33
9" x 7/8"	25	6,600	90.08	95.27	97.02	107.39	109.48

CS 570 LUBRICATED ALUMINA ZIRCONIA FIBRE DISCS

Also an alumina zirconia disc, the CS 570 has an added advantage - a dry lubricant. This feature aids in reducing heat build-up for a cleaner, cooler cut. The CS 570 is especially useful in those applications where grinding heat can discolor the workpiece.

PRICE PER BOX

Diameter	Box Quantity	Max RPM	120/100/80 Grit	60 Grit	50 Grit	36 Grit	24 Grit
4 1/2" x 7/8"	25	13,300	\$28.41	\$30.26	\$31.39	\$34.30	\$36.02
5" x 7/8"	25	12,200	36.02	37.77	39.50	42.97	45.05
7" x 7/8"	25	8,600	50.23	53.00	54.40	59.26	61.33



CS 661 LUBRICATED CERAMIC FIBRE DISCS

For the optimum in life and grinding consistency, the CS 661 Ceramic aluminum oxide lubed fibre disc cannot be beat. The tough ceramic grain cuts fast and lasts longer than any other grain type on hard steels and metals.

PRICE PER BOX

Diameter	Box Qty	Max RPM	80 Grit	60 Grit	50 Grit	40 Grit	36 Grit	24 Grit
4 1/2" x 7/8"	25	13,300	39.47	41.44	\$44.76	46.64	\$51.30	\$59.02
5" x 7/8"	25	12,200	53.35	56.02	60.50	62.07	68.28	78.63
7" x 7/8"	25	8,600	85.44	89.71	96.89	102.34	112.57	130.57

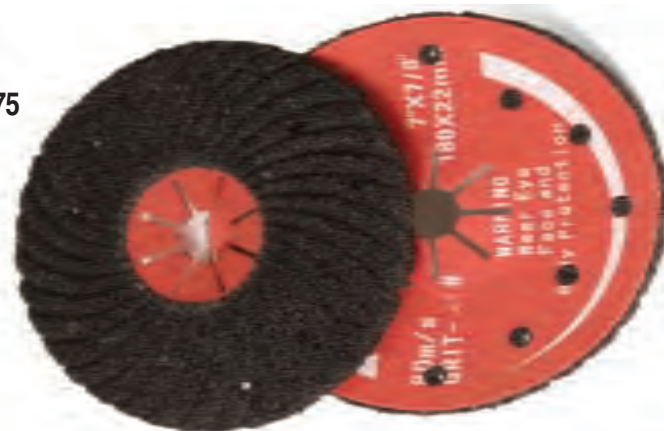
CS 575

CS 575 TYPE 27 SILICON CARBIDE FIBRE DISCS

Silicon Carbide grain on a rigid backing designed for fast removal times and heavy stock removal rates in the fiberglass and plastic industries.

Diameter	Box Quantity	60 Grit	36 Grit	24 Grit	16 Grit
4-1/2"	5	\$20.80	\$21.58	\$22.10	\$23.40
5"	5	23.56	23.82	24.44	25.64
7"	5	30.42	30.68	30.94	31.46

PRICE PER BOX





Observe appropriate safety regulations. Use eye, face, hearing, respiratory, hand and body protection when using abrasive products.

Quick Lock Fibre Discs

Production shops will appreciate the quick on, quick off use of KLINGSPOR's Quick Lock Fibre Discs. Changing of discs or switching between grits takes only a few seconds. Use only with KLINGSPOR's Quick Lock Backing Pads.

CS 561 ALUMINUM OXIDE QUICK LOCK FIBRE DISCS

PRICE PER BOX

Diameter	Box Qty	Max RPM	80 Grit +	60 Grit	50 Grit	40 Grit	36 Grit	24 Grit	16 Grit
4 1/2"	25	13,300	\$37.77	\$39.50	\$40.16	\$41.23	\$41.93	\$42.97	\$49.88
5"	25	12,200	40.16	41.23	42.97	44.01	44.69	45.73	54.40
7"	25	8,600	54.40	56.82	57.86	60.30	61.33	63.07	75.54
9"	25	6,600	66.52	69.98	72.76	74.50	76.24	77.95	95.64

CS 565 ALUMINA ZIRCONIA QUICK LOCK FIBRE DISCS CS 570 LUBRICATED ALUMINA ZIRCONIA

PRICE PER BOX

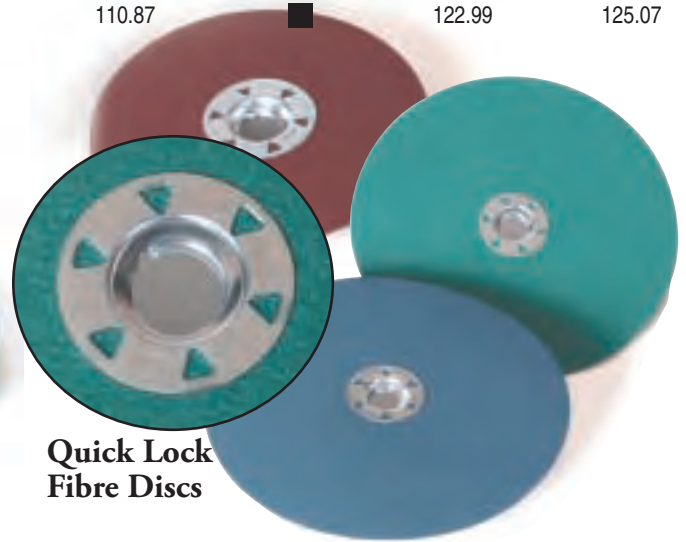
Diameter	Box Qty	Max RPM	80 Grit	60 Grit	50 Grit	36 Grit	24 Grit
4 1/2"	25	13,300	\$44.01	\$45.73	\$47.12	\$49.88	\$51.63
5"	25	12,200	51.63	53.37	55.08	58.54	60.62
7"	25	8,600	65.82	68.62	69.98	74.84	76.92
9"	25	6,600	105.65	110.87	122.99	125.07	



Phenolic Backing Pad

PRICE PER PAD

Diameter	Item #	Description	Price
5"	FBP-5	5" Phenolic Backing Pad	\$5.18
7"	FBP-7	7" Phenolic Backing Pad	6.91



Quick Lock Fibre Discs

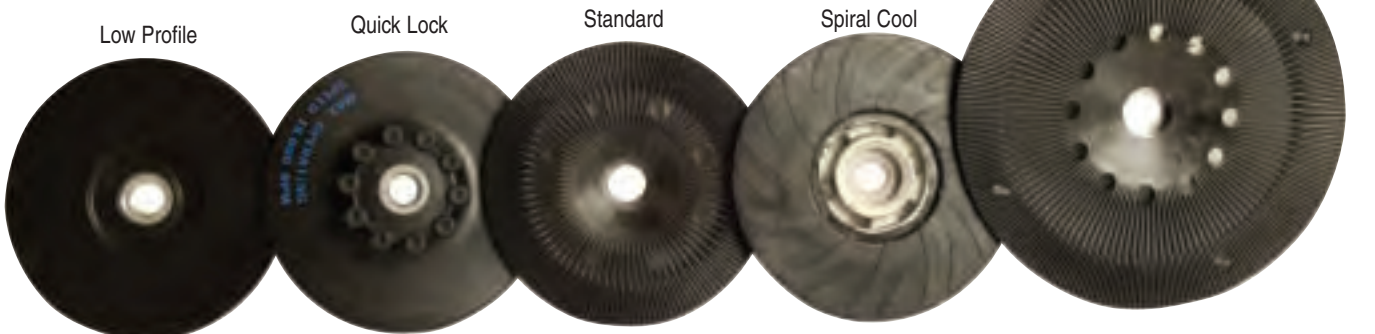
Fibre Disc Backing Pads

Diameter	Item #	PRICE PER PAD
4 1/2" Standard	BP001	\$21.27
5" Standard	BP002	\$25.12
5" Spiral Cool	BPS011	\$44.63
7" Standard	BP003	\$37.49
7" Spiral Cool	BPS010	\$54.04
9" Standard	BP004	\$48.56

Quick Lock Backing Pads

Diameter	Item #	PRICE PER PAD
4 1/2"	BPQ001	\$45.21
4 1/2" Low Profile	BPQ002	\$45.21
5"	BPQ003	\$45.21
5" Low Profile	BPQ004	\$45.21
7" Soft	BPQ005	\$59.24
7" Medium	BPQ006	\$50.89
7" Firm	BPQ007	\$59.24
9" Medium	BPQ008	\$70.83

BP Series Rubber Plates



FLAP DISCS
BONDED
NON-WOVEN
QUICK CHANGE
BELTS
ROLLS
SHEETS
FLAPWHEELS
SPECIALTY
DISCS
SAFETY
POWER TOOLS
REFERENCE



BONDED ABRASIVES

CUT OFF WHEELS

As one of the world's leaders in the production of cut off wheels KLINGSPOR has the ideal wheel for virtually any cutting application. Whether they are used on die grinders, portable gas powered tools, or stationary machines, you'll be able to fine tune to your specific need. Discs are available for the cutting of ferrous and non-ferrous metals as well as masonry, glass, and other specialty materials. Sizes from 3" in diameter to 20" in diameter.

GRINDING DISCS

KLINGSPOR Grinding Discs are perfect for grinding welds, smoothing out pits, removing slag and flash, and a host of other metal grinding situations. The line includes specialty discs, as well as high performance discs and discs that offer economical efficiency.



oSa – What Does it Mean?

On our grinding and cutting products, you will see the oSa logo. What exactly is oSa and what does it mean?

On products that grind and cut at high peripheral speeds, it is extremely important that they are deemed safe so as to stand up to extreme mechanical and thermal stress. Because there are no globally binding safety requirements for these abrasive products, responsible manufacturers of grinding and cutting abrasives from a number of European countries have set up the Organization for the Safety of Abrasives (oSa). This is a significant measure setting a clear signal against inferior and dangerous products.

oSa issues the worldwide protected oSa trademark only to manufacturers that see to it that the exact provisions are kept, standard operating procedures are adhered to, and that only safe, high quality products are produced and marketed. This is an assurance to the user that they are purchasing grinding and cutting products that have been consistently monitored for safety and quality during the manufacturing process.

Ultra-Thin Cut-off Wheels

1 (flat) or type 27 (depressed center), these wheels perform well on a variety of different materials and applications.

A 60 S

Stainless Steel, Stainless Steel Sheets, Container Construction



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
6 x .045 x 7/8 T-27	A60S	25	10,000	CFX0175	\$4.81
6 x .045 x 7/8" Flat	A60S	25	10,000	CFX0170	4.81

A 60 TZ Special

Stainless Steel, Stainless Steel Sheets, Container Construction



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4 1/2" x .040" x 7/8"	A60TZ	25	13,300	A60TZ1151.022D	\$3.93
5" x .040" x 7/8"	A60TZ	25	12,200	A60TZ1251.022D	4.41
4 1/2" x .040" x 7/8"	A60TZ	25	13,300	A60TZ1151.022F	3.93
5" x .040" x 7/8"	A60TZ	25	12,200	A60TZ1251.022F	4.41

A 60 N Supra

Non-Ferrous Metals, Aluminum, Copper Brass. Soft Structure Prevents Loading



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4 1/2" x 1/32" x 7/8"	A60N	25	13,300	A60N1151.022F	\$4.35
5" x 1/32" x 7/8"	A60N	25	12,200	A60N1251.022F	4.80

A 80 TZ Special

Stainless Steel, Stainless Steel Sheets, Container Construction



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4 1/2" x 1/32" x 7/8"	A80TZ	25	13,300	A80TZ1150.822D	\$4.35
5" x 1/32" x 7/8"	A80TZ	25	12,200	A80TZ1250.822D	4.80

A 46 TZ Special

Stainless Steel, Stainless Steel Sheets, Container Construction



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4" x 1/16" x 5/8"	A46TZ	25	13300	A46TZ1001.616F	\$3.81
4 1/2" x 1/16" x 7/8"	A46TZ	25	13300	A46TZ1151.622F	3.93
5" x 1/16" x 7/8"	A46TZ	25	12200	A46TZ1251.622F	4.53
7" x 1/16" x 7/8"	A46TZ	25	8500	A46TZ1781.622F	6.00
9" x 5/64" x 7/8"	A46TZ	25	6600	A46TZ2301.922F	7.81

Duplex A 46 VZ Special

Extra thin and efficient for cutting AND safe grinding.



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4 1/2" x 5/64" x 7/8" DUPLEX	A46VZ	25	13,300	A46VZ1152.022D	\$4.21
5" x 5/64" x 7/8" DUPLEX	A46VZ	25	12,200	A46VZ1252.022D	4.67



Yellow Extra Cut Off Wheels

CUT OFF WHEELS - TYPE 1 FLAT

Size	Grit	Box Quantity	Max RPM	Item #	Price Per Disc
7" x 1/8" x 7/8"	A24Extra	25	8500	A24E1783.022F	\$3.15
7" x 1/8" x 7/8"	C24Extra	25	8500	C24E1783.022F	3.27
9" x 1/8" x 7/8"	A24Extra	25	6600	A24E2303.022F	4.63
9" x 1/8" x 7/8"	C24Extra	25	6600	C24E2303.022F	4.75

CUT OFF WHEELS - TYPE 27 DEPRESSED CENTER

Size	Grit	Box Quantity	Max RPM	Item #	Price Per Disc
4" x 3/32" x 5/8"	A24Extra	25	15300	A24E1002.516D	\$2.19
4" x 3/32" x 5/8"	C24Extra	25	15300	C24E1002.516D	2.33
4 1/2" x 3/32" x 7/8"	A24Extra	25	13300	A24E1152.522D	2.27
4 1/2" x 3/32" x 5/8"-11 hub	A24Extra	10	13300	A24E1152.522A	3.87
4 1/2" x 3/32" x 7/8"	C24Extra	25	13300	C24E1152.522D	2.40
4 1/2" x 3/32" x 5/8"-11 hub	C24Extra	10	13300	C24E1152.522A	4.04
5" x 3/32" x 7/8"	A24Extra	25	12200	A24E1252.522D	2.48
5" x 3/32" x 5/8"-11 hub	A24Extra	10	12200	A24E1252.522A	4.09
5" x 3/32" x 7/8"	C24Extra	25	12200	C24E1252.522D	2.61
5" x 3/32" x 5/8"-11 hub	C24Extra	10	12200	C24E1252.522A	4.17
7" x 1/8" x 7/8"	A24Extra	25	8500	A24E1783.022D	3.14
7" x 1/8" x 5/8"-11 hub	A24Extra	10	8500	A24E1783.022A	4.75
7" x 1/8" x 7/8"	C24Extra	25	8500	C24E1783.022D	3.27
7" x 1/8" x 5/8"-11 hub	C24Extra	10	8500	C24E1783.022A	4.88
9" x 1/8" x 7/8"	A24Extra	25	6600	A24E2303.022D	4.62
9" x 1/8" x 5/8"-11 hub	A24Extra	10	6600	A24E2303.022A	6.22
9" x 1/8" x 7/8"	C24Extra	25	6600	C24E2303.022D	4.75
9" x 1/8" x 5/8"-11 hub	C24Extra	10	6600	C24E2303.022A	6.34



Depressed center wheels offer extra center stability, allow for more of the wheel to be used, and moves the wheel away from the guard. Cut-off wheels are available in both depressed center and flat configurations. However, grinding discs are only available as depressed center.

Maximum operating speed - 16,000 surface feet per minute (SFPM). For use with portable tools.

Visit us online: www.klingspor.com

Cut Off Wheels For Hand-held Machines

A 24 R Supra

Steel, Structural Steel,
Tool Steel, Sheet Steel



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4" x 3/32" x 5/8"	A24R	25	15300	A24R1002.516D	\$2.33
4 1/2" x 3/32" x 7/8"	A24R	25	13300	A24R1152.522D	2.48
4 1/2" x 3/32" x 5/8"-11 hub	A24R	10	13300	A24R1152.522A	4.09
5" x 3/32" x 7/8"	A24R	25	12200	A24R1252.522D	2.81
5" x 3/32" x 5/8"-11 hub	A24R	10	12200	A24R1252.522A	4.41
7" x 1/8" x 7/8"	A24R	25	8500	A24R1783.022D	3.48
7" x 1/8" x 5/8"-11 hub	A24R	10	8500	A24R1783.022A	5.08
7" x 9/64" x 7/8"	A24R	25	8500	A24R1783.522D	3.93
7" x 9/64" x 5/8"-11 hub	A24R	10	8500	A24R1783.522A	5.54
9" x 1/8" x 7/8"	A24R	25	6600	A24R2303.022D	5.88
9" x 1/8" x 5/8"-11 hub	A24R	10	6600	A24R2303.022A	7.48



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4" x 3/32" x 5/8"	A24R	25	15300	A24R1002.516F	\$2.33
4 1/2" x 3/32" x 7/8"	A24R	25	13300	A24R1152.522F	2.48
5" x 3/32" x 7/8"	A24R	25	12200	A24R1252.522F	2.81
6" x 3/32" x 7/8"	A24R	25	10200	A24R1502.522F	3.33
7" x 1/8" x 7/8"	A24R	25	8500	A24R1783.022F	3.48
9" x 1/8" x 7/8"	A24R	25	6600	A24R2303.022F	5.88

A 24 N Supra

Stainless Steel,
Non-Alloy Stainless Steel,
High Alloy Stainless Steel



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4 1/2" x 3/32" x 7/8"	A24N	25	13300	A24N1152.522D	\$2.61
4 1/2" x 3/32" x 5/8"-11 hub	A24N	10	13300	A24N1152.522A	4.19
5" x 3/32" x 7/8"	A24N	25	12200	A24N1252.522D	2.95
5" x 3/32" x 5/8"-11 hub	A24N	10	12200	A24N1252.522A	4.53
7" x 1/8" x 7/8"	A24N	25	8500	A24N1783.022D	3.81
7" x 1/8" x 5/8"-11 hub	A24N	10	8500	A24N1783.022A	5.41
7" x 9/64" x 7/8"	A24N	25	8500	A24N1783.522D	3.93
7" x 9/64" x 5/8"-11 hub	A24N	10	8500	A24N1783.522A	5.54
9" x 1/8" x 7/8"	A24N	25	6600	A24N2303.022D	6.34
9" x 1/8" x 5/8"-11 hub	A24N	10	6600	A24N2303.022A	7.96
9" x 9/64" x 7/8"	A24N	25	6600	A24N2303.522D	10.15
9" x 9/64" x 5/8"-11 hub	A24N	10	6600	A24N2303.522A	11.75



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
7" x 1/8" x 7/8"	A24N	25	8500	A24N1783.022F	\$3.81
9" x 1/8" x 7/8"	A24N	25	6600	A24N2303.022F	6.34

A 24 S Supra

Cast Iron, Cast Steel,
Brass



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
7" x 1/8" x 7/8"	A24S	25	8500	A24S1783.022D	\$3.48
7" x 1/8" x 5/8"-11 hub	A24S	10	8500	A24S1783.022A	5.08



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
9" x 1/8" x 7/8"	A24S	25	6600	A24S2303.022F	5.88

A 36 R Supra

Stainless Steel,
High Alloy Stainless Steel,
Stainless Steel Sheets



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4 1/2" x 5/64" x 7/8"	A36R	25	13300	A36R1152.022F	\$2.61
5" x 5/64" x 7/8"	A36R	25	12200	A36R1252.022F	2.95
7" x 3/32" x 7/8"	A36R	25	8500	A36R1782.522F	3.48
9" x 3/32" x 7/8"	A36R	25	6600	A36R2302.522F	6.34



Cut Off Wheels For Hand-held Machines

FLAP DISCS

BONDED

NON-WOVEN

QUICK CHANGE

BELTS

ROLLS

SHEETS

FLAPWHEELS

SPECIALTY

DISCS

SAFETY

POWER TOOLS

REFERENCE



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4 1/2" x 3/32" x 7/8"	A46N	25	13300	A46N1152.522D	\$2.61
4 1/2" x 3/32" x 5/8"-11 hub	A46N	10	13300	A46N1152.522A	4.19
5" x 3/32" x 7/8"	A46N	25	12200	A46N1252.522D	2.95
5" x 3/32" x 5/8"-11 hub	A46N	10	12200	A46N1252.522A	4.53

A 46 N Supra
Aluminum



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
7" x 1/8" x 7/8"	A46N	25	8500	A46N1783.022F	\$3.81
9" x 1/8" x 7/8"	A46N	25	6600	A46N2303.022F	6.34

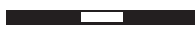


Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4" x 3/32" x 5/8"	C24R	25	15300	C24R1002.516D	\$2.48
4 1/2" x 3/32" x 7/8"	C24R	25	13300	C24R1152.522D	2.61
4 1/2" x 3/32" x 5/8"-11 hub	C24R	10	13300	C24R1152.522A	4.19
5" x 3/32" x 7/8"	C24R	25	12200	C24R1252.522D	3.14
5" x 3/32" x 5/8"-11 hub	C24R	10	12200	C24R1252.522A	4.75
7" x 1/8" x 7/8"	C24R	25	8500	C24R1783.022D	3.61
7" x 1/8" x 5/8"-11 hub	C24R	10	8500	C24R1783.022A	5.23
9" x 1/8" x 7/8"	C24R	25	6600	C24R2303.022D	6.00
9" x 1/8" x 5/8"-11 hub	C24R	10	6600	C24R2303.022A	7.61

C 24 R Supra
Stone, Marble



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
5" x 3/32" x 7/8"	C24R	25	12200	C24R1252.522F	3.14
6" x 3/32" x 7/8"	C24R	25	10200	C24R1502.522F	3.48
7" x 1/8" x 7/8"	C24R	25	8500	C24R1783.022F	3.61
9" x 1/8" x 7/8"	C24R	25	6600	C24R2303.022F	6.00



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4 1/2" x 3/32" x 7/8"	A24TZ	25	13300	A24TZ1152.522D	\$3.66
4 1/2" x 3/32" x 5/8"-11 hub	A24TZ	10	13300	A24TZ1152.522A	5.28
5" x 3/32" x 7/8"	A24TZ	25	12200	A24TZ1252.522D	4.41
5" x 3/32" x 5/8"-11 hub	A24TZ	10	12200	A24TZ1252.522A	6.00

A 24 TZ Special

Stainless Steel,
Non-Alloy Stainless Steel
High Alloy Stainless Steel,
Stainless Steel Sheets



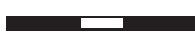
Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
7" x 1/8" x 7/8"	A24TZ	25	8500	A24TZ1783.022F	\$5.34
9" x 1/8" x 7/8"	A24TZ	25	6600	A24TZ2303.022F	7.69



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4 1/2" x 5/64" x 7/8"	A36TZ	25	13300	A36TZ1152.022F	\$3.81
5" x 5/64" x 7/8"	A36TZ	25	12200	A36TZ1252.022F	3.93
7" x 5/64" x 7/8"	A36TZ	25	8500	A36TZ1782.022F	6.00
9" x 5/64" x 7/8"	A36TZ	25	6600	A36TZ2302.022F	7.81

A 36 TZ Special

Sheet Steel,
Stainless Steel,
High Alloy Steel



Cut Off Wheels For Portable Cutters

A 24 R Special

Steel, Structural Steel,
Tool Steel, Sheet Steel

Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
12" x 9/64" x 20mm	A24R	10	5100	A24R3003.520F	\$8.83
12" x 9/64" x 7/8"	A24R	10	5100	A24R3003.522F	8.83
12" x 9/64" x 1"	A24R	10	5100	A24R3003.525F	8.83

A 24 SZ Special

Railroad Tracks

Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
14" x 5/32" x 1"	A24SZ	10	5500	A24SZ3504.025F	\$13.42

A 24 SX Special

Railroad Tracks

Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
14" x 5/32" x 1"	A24SX	10	5500	A24SX3504.025F	\$14.30
16" x 5/32" x 1"	A24SX	10	4600	A24SX4004.025F	23.14

C 24 RA Special

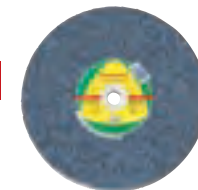
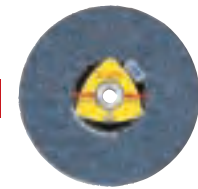
Asphalt

Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
12" x 9/64" x 20mm	C24RA	10	5100	C24RA3003.520F	\$9.21
12" x 9/64" x 7/8"	C24RA	10	5100	C24RA3003.522F	9.21
14" x 5/32" x 1"	C24RA	10	5500	C24RA3504.025F	13.77
16" x 3/16" x 1"	C24RA	10	4800	C24RA4004.525F	16.83

A 24 N Supra

Stainless Steel, Non-Alloy and
High Alloy Stainless Steel

Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
14" x 9/64" x 1"	A24N	10	5500	A24N3503.525F	13.35



"Extra Cut" Small Cutting Wheels

Size	Grit	Box Quantity	Max RPM	Item #	Price Per Disc
2" x 1/8" x 3/8"	A60T	10	30,000	EC1191	\$2.40
3" x .040" x 1/4"	A60S	10	25,000	EC0105	1.98
3" x .040" x 3/8"	A60S	10	25,000	EC0110	1.98
3" x 1/16" x 1/4"	A36S	10	25,000	EC0120	1.98
3" x 1/16" x 1/4"	A60S	10	25,000	EC0130	1.98
3" x 1/16" x 3/8"	A36S	10	25,000	EC0140	1.98
3" x 1/16" x 3/8"	A60S	10	25,000	EC0150	1.98
3" x 3/32" x 1/4"	A36S	10	25,000	EC0160	1.98
3" x 3/32" x 3/8"	A36S	10	22,000	EC0170	1.98
4" x .040" x 1/4"	A60S	10	22,000	EC0180	2.33
4" x .040" x 3/8"	A60S	10	22,000	EC0190	2.33
4" x .040" x 5/8"	A60S	10	19,000	EC0210	2.33
4" x 1/16" x 1/4"	A36S	10	19,000	EC0230	2.33
4" x 1/16" x 1/4"	A60S	10	19,000	EC0240	2.40
4" x 1/16" x 3/8"	A36S	10	19,000	EC0250	2.40
4" x 1/16" x 3/8"	A60S	10	19,000	EC0260	2.40
4" x 1/16" x 5/8"	A36S	10	19,000	EC0290	2.40
4" x 1/16" x 5/8"	A60S	10	19,000	EC0300	2.40
4" x 3/32" x 3/8"	A36S	10	19,000	EC0370	2.40
4 1/2" x .040" x 7/8"	A60S	10	15,000	EC0400	3.32
4 1/2" x 1/16" x 7/8"	A36S	10	15,000	EC0410	3.32
6" x .040" x 7/8"	A60S	10	10,186	EC0580	4.28
6" x 1/16" x 7/8"	A60S	10	10,186	EC0660	4.28



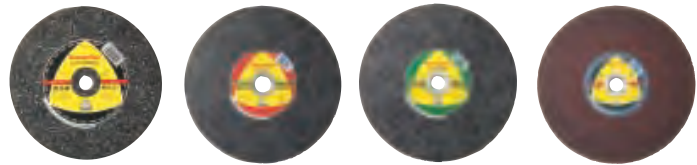
THICKNESS TOLERANCES WILL NOT EXCEED +/- .015"

"EXTRA CUT" MANDREL

Size	Item #	Price
1/4" & 3/8"	ECARBORM-50P	\$9.92

PRICE PER MANDREL

Cut Off Wheels For Stationary Machines



A 24 R Supra

Steel, Structural Steel,
Tool Steel, Sheet Steel

Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
10" x 3/32" x 1 1/4"	A24R	10	7600	A24R2502.532F	\$8.94
12" x 1/8" x 1"	A24R	10	6400	A24R3003.025F	8.94
12" x 1/8" x 1 1/8"	A24R	10	6400	A24R3003.030F	8.94
14" x 9/64" x 1"	A24R	10	5500	A24R3503.525F	12.56

C 24 R Supra

Stone

Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
12" x 1/8" x 1"	C24R	10	6400	C24R3003.025F	\$9.62
12" x 1/8" x 1 1/8"	C24R	10	6400	C24R3003.030F	9.62
14" x 9/64" x 1"	C24R	10	5500	C24R3503.525F	13.23

A 30 N Special

All Metals

Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
12" x 3/32" x 1"	A30N	10	5100	A30N3002.525F FC	\$8.75
14" x 1/8" x 1"	A30N	10	4400	A30N3503.025F FC	9.96
16" x 9/64" x 1"	A30N	10	3800	A30N4003.525F	13.15

For Circular Saws

KLINGSPOR's general purpose wheels for use on circular saws offer you economical, reliable performance in most cutting applications.

Size	Grit	Box Quantity	Max RPM	Item #	Price Per Disc
7" x 1/8" x 5/8"	C30U	10	8600	CFX0200	\$6.45
7" x 3/32" x 5/8"	A30T	10	8600	CFX0205	6.45
8" x 3/32" x 5/8"	A30T	10	7500	CFX0215	7.38



For Chopsaws

For fast-cutting action and overall performance on chopsaw machines, these general purpose wheels will accomplish your goals.

Size	Grit	Box Quantity	Max RPM	Item #	Price Per Disc
14" x 3/32" x 1"	A30R	10	4365	CFX0455	\$11.01
16" x 3/32" x 1"	A30R	10	3820	CFX0460	17.38

For Portable Gas & Electric Saws

These Heavy Duty wheels incorporate all the features needed to be top-performing cut off blades on portable machines.

Size	Grit	Box Quantity	Max RPM	Item #	Price Per Disc
12" x 1/8" x 20mm	A24/30S	10	6300	CFX0400	\$10.09
12" x 1/8" x 1"	A24/30S	10	6300	CFX0405	10.09
14 x 1/8" x 20mm	A24/30SB	10	5460	CFX0435	12.00

new



For Stationary Machines

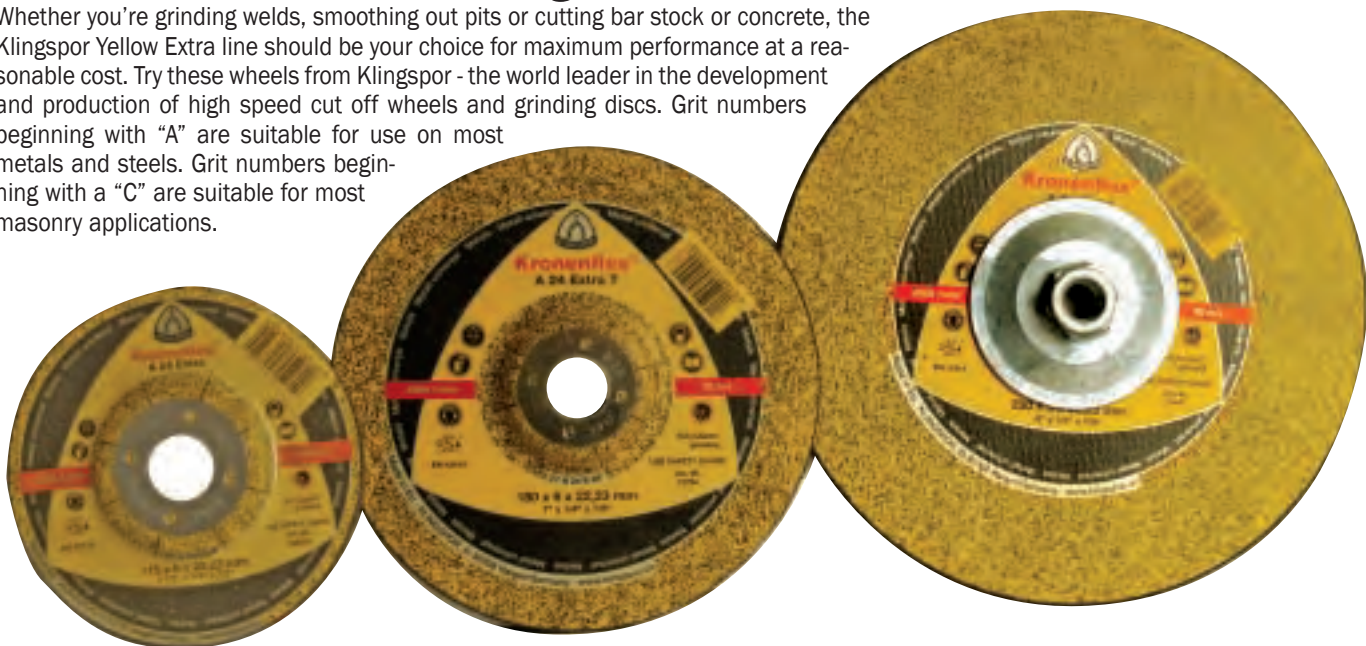
KLINGSPOR's general purpose wheels for stationary saws provide reliable performance every time. The rigors of these applications are handled effectively and economically.

Size	Grit	Box Quantity	Max RPM	Item #	Price Per Disc
10" x 3/32" x 5/8"	A30S	10	6112	CFX0300	\$11.51
16" x 5/32" x 1"	A30R	10	3820	CFX0340	26.72
20" x 3/16" x 1"	A30R	10	3066	CFX0350	54.90

FLAP DISCS
BONDED
NON-WOVEN
QUICK CHANGE
BELTS
ROLLS
SHEETS
FLAPWHEELS
SPECIALTY
DISCS
SAFETY
POWERTOOLS
REFERENCE

Yellow Extra Grinding Discs

Whether you're grinding welds, smoothing out pits or cutting bar stock or concrete, the Klingspor Yellow Extra line should be your choice for maximum performance at a reasonable cost. Try these wheels from Klingspor - the world leader in the development and production of high speed cut off wheels and grinding discs. Grit numbers beginning with "A" are suitable for use on most metals and steels. Grit numbers beginning with a "C" are suitable for most masonry applications.



TYPE 27 DEPRESSED CENTER

Size	Grit	Box Quantity	Max RPM	Item #	Price Per Disc
4" x 1/4" x 5/8"	A24Extra	10	15300	A24E1006.016D	\$2.42
4 1/2" x 1/4" x 7/8"	A24Extra	10	13300	A24E1156.022D	2.57
4 1/2" x 1/4" x 5/8"-11 hub	A24Extra	10	13300	A24E1156.022A	4.22
5" x 1/4" x 7/8"	A24Extra	10	12200	A24E1256.022D	2.97
5" x 1/4" x 5/8"-11 hub	A24Extra	10	12200	A24E1256.022A	4.65
7" x 1/4" x 7/8"	A24Extra	10	8500	A24E1786.022D	4.57
7" x 1/4" x 5/8"-11 hub	A24Extra	10	8500	A24E1786.022A	6.22
7" x 1/4" x 7/8"	A24ExtraT	10	8500	A24ET1786.022D	4.57
7" x 1/4" x 5/8"-11 hub	A24ExtraT	10	8500	A24ET1786.022A	6.22
9" x 1/4" x 7/8"	A24Extra	10	6600	A24E2306.022D	6.66
9" x 1/4" x 5/8"-11 hub	A24Extra	10	6600	A24E2306.022A	8.31

Maximum operating speed - 16,000 surface feet per minute (SFPM). For use with portable tools.



Grinding Discs

A 24 R Supra

Steel, Structural Steel, Tool Steel, Sheet Steel



Grinding discs should be used at a 35 degree angle for best wear and removal.

*This is also the safest way to run the wheel to avoid "chucking"

Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4" x 5/32" x 5/8"	A24R	10	15300	A24R1004.016D	\$2.57
4" x 1/4" x 5/8"	A24R	10	15300	A24R1006.016D	3.06
4 1/2" x 5/32" x 7/8"	A24R	10	13300	A24R1154.022D	2.70
4 1/2" x 5/32" x 5/8"-11 hub	A24R	10	13300	A24R1154.022A	4.22
4 1/2" x 1/4" x 7/8"	A24R	10	13300	A24R1156.022D	3.27
4 1/2" x 1/4" x 5/8"-11 hub	A24R	10	13300	A24R1156.022A	4.93
5" x 1/4" x 7/8"	A24R	10	12200	A24R1256.022D	3.38
5" x 1/4" x 5/8"-11 hub	A24R	10	12200	A24R1256.022A	5.06
6" x 1/4" x 7/8"	A24R	10	10200	A24R1506.022D	4.32
6" x 1/4" x 5/8"-11 hub	A24R	10	10200	A24R1506.022A	5.98
7" x 1/4" x 7/8"	A24R	10	8500	A24R1786.022D	5.69
7" x 1/4" x 5/8"-11 hub	A24R	10	8500	A24R1786.022A	7.35
7" x 5/16" x 7/8"	A24R	10	8500	A24R1788.022D	7.01
9" x 1/4" x 7/8"	A24R	10	6600	A24R2306.022D	9.65
9" x 1/4" x 5/8"-11 hub	A24R	10	6600	A24R2306.022A	11.29



FLAP DISCS
BONDED
 NON-WOVEN
 QUICK CHANGE
 BELTS
 ROLLS
 SHEETS
 FLAPWHEELS
 SPECIALTY
 DISCS
 SAFETY
 POWER TOOLS
 REFERENCE



A 24 N Supra

Stainless Steel,
 Non-Alloy Stainless Steel,
 High Alloy Stainless Steel



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4 1/2" x 1/4" x 7/8"	A24N	10	13300	A24N1156.022D	\$3.62
4 1/2" x 1/4" x 5/8"-11 hub	A24N	10	13300	A24N1156.022A	5.27
5" x 1/4" x 7/8"	A24N	10	12200	A24N1256.022D	3.94
5" x 1/4" x 5/8"-11 hub	A24N	10	12200	A24N1256.022A	5.61
7" x 1/4" x 7/8"	A24N	10	8500	A24N1786.022D	6.22
7" x 1/4" x 5/8"-11 hub	A24N	10	8500	A24N1786.022A	7.90
7" x 5/16" x 7/8"	A24N	10	8500	A24N1788.022D	7.35
9" x 1/4" x 7/8"	A24N	10	6600	A24N2306.022D	10.54
9" x 1/4" x 5/8"-11 hub	A24N	10	6600	A24N2306.022A	12.20



A 24 S Supra

Cast Iron, Cast Steel



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
7" x 1/4" x 7/8"	A24S	10	8500	A24S1786.022D	\$7.35
7" x 1/4" x 5/8"-11 hub	A24S	10	8500	A24S1786.022A	8.99



C 24 R Supra

Concrete, Granite Stone



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4 1/2" x 1/4" x 7/8"	C24R	10	13300	C24R1156.022D	3.94
4 1/2" x 1/4" x 5/8"-11 hub	C24R	10	13300	C24R1156.022A	5.61
5" x 1/4" x 7/8"	C24R	10	12200	C24R1256.022D	4.99
5" x 1/4" x 5/8"-11 hub	C24R	10	12200	C24R1256.022A	6.66
7" x 1/4" x 7/8"	C24R	10	8500	C24R1786.022D	6.85
7" x 1/4" x 5/8"-11 hub	C24R	10	8500	C24R1786.022A	8.53
7" x 5/16" x 7/8"	C24R	10	8500	C24R1788.022D	7.35



A 24 TX Special

Cast Iron, Cast Steel



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4 1/2" x 1/4" x 7/8"	A24TX	10	13300	A24TX1156.022D	\$5.10
4 1/2" x 1/4" x 5/8"-11 hub	A24TX	10	13300	A24TX1156.022A	6.70
5" x 1/4" x 7/8"	A24TX	10	12200	A24TX1256.022D	5.53
5" x 1/4" x 5/8"-11 hub	A24TX	10	12200	A24TX1256.022A	7.13
7" x 1/4" x 7/8"	A24TX	10	8500	A24TX1786.022D	9.06
7" x 1/4" x 5/8"-11 hub	A24TX	10	8500	A24TX1786.022A	10.66
9" x 1/4" x 7/8"	A24TX	10	6600	A24TX2306.022D	13.10
9" x 1/4" x 5/8"-11 hub	A24TX	10	6600	A24TX2306.022A	14.77



new

A30M Special

2 in 1 Grinding Disc
 for Carbon Steel &
 Stainless Steel



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4 1/2" x 1/4" x 7/8"	A30M	10	13300	A30M1156.022D	\$5.10
4 1/2" x 1/4" x 5/8"-11 hub	A30M	10	13300	A30M1156.022A	6.70
5" x 1/4" x 7/8"	A30M	10	12200	A30M1256.022D	5.53
5" x 1/4" x 5/8"-11 hub	A30M	10	12200	A30M1256.022A	7.13
6" x 1/4" x 7/8"	A30M	10	10200	A30M1506.022D	7.45
6" x 1/4" x 5/8"-11 hub	A30M	10	10200	A30M1506.022A	9.05
7" x 1/4" x 7/8"	A30M	10	8500	A30M1786.022D	9.06
7" x 1/4" x 5/8"-11 hub	A30M	10	8500	A30M1786.022A	10.66

*add hubbed sizes



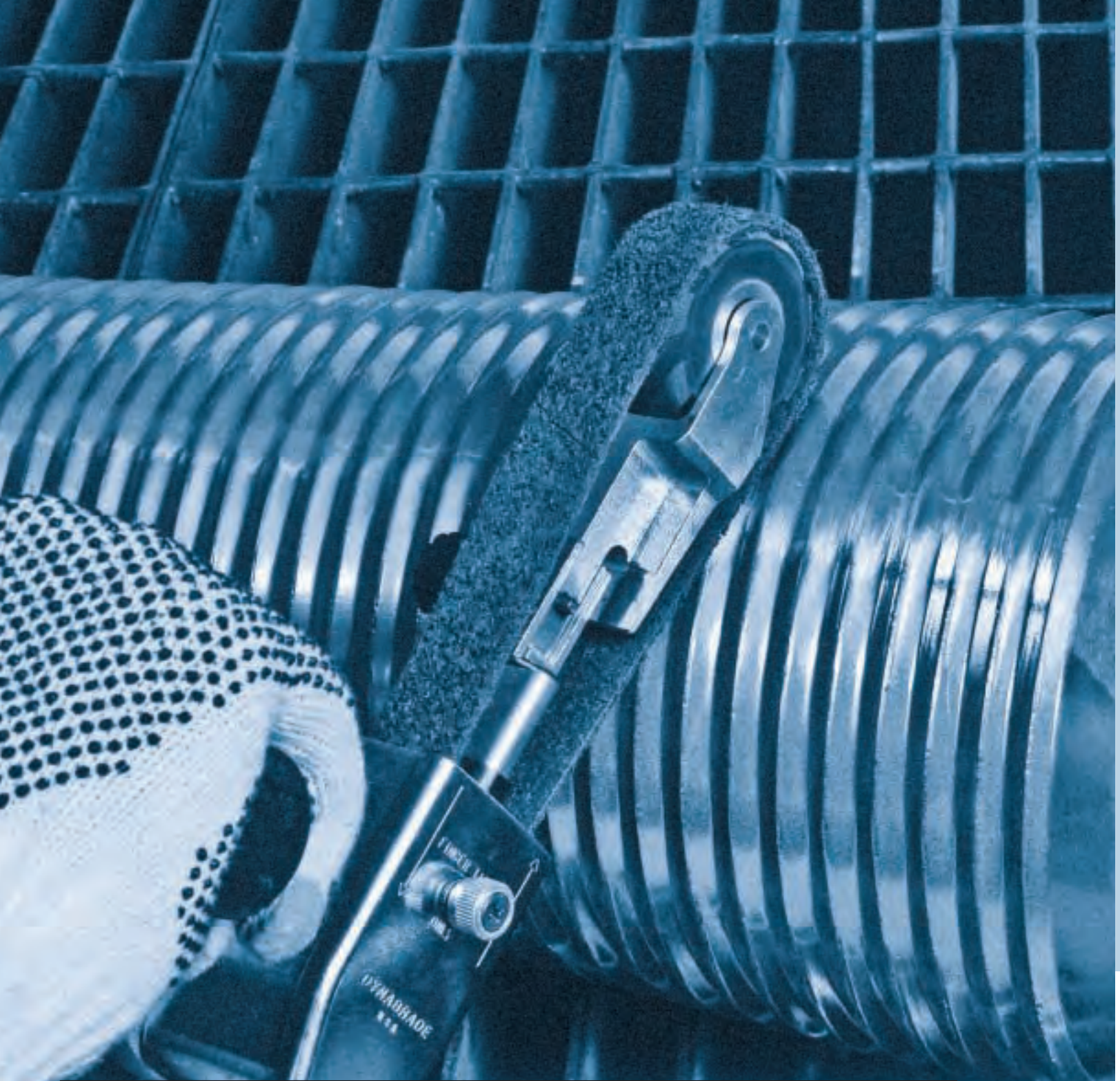
A 46 N Supra

Aluminum

Top discs in the
 industry for aluminum



Size	Grit	Box Qty	Max RPM	Item #	Price Per Disc
4 1/2" x 1/4" x 7/8"	A46N	10	13300	A46N1156.022D	\$3.62
4 1/2" x 1/4" x 5/8"-11 hub	A46N	10	13300	A46N1156.022A	5.27
5" x 1/4" x 7/8"	A46N	10	12200	A46N1256.022D	3.94
5" x 1/4" x 5/8"-11 hub	A46N	10	12200	A46N1256.022A	5.61
7" x 1/4" x 7/8"	A46N	10	8500	A46N1786.022D	6.22
7" x 1/4" x 5/8"-11 hub	A46N	10	8500	A46N1786.022A	7.90
7" x 5/16" x 7/8"	A46N	10	8500	A46N1788.022D	7.35



NON WOVEN ABRASIVES

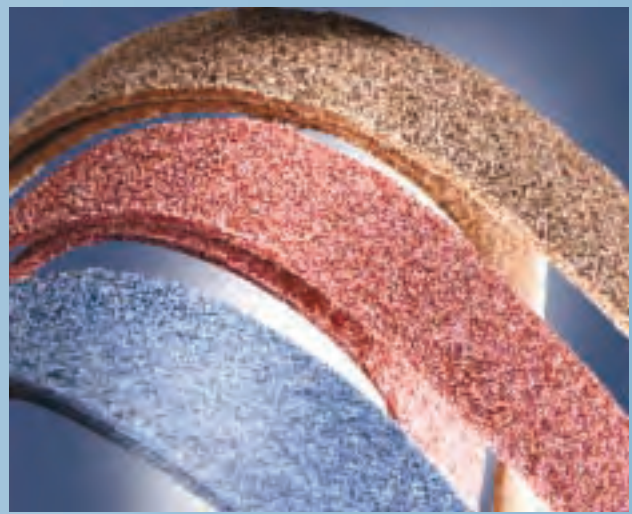
The use of non-woven materials has greatly increased in metal working operations and is making its presence known in woodworking and other industries as well. The reasons for the expanded use of non-woven products are quite clear - the effectiveness of these products is outstanding. Their tough, yet forgiving nature offers many benefits to the metal grinding and finishing trades, and to a unique blend of manufacturing operations.

Heavy Duty Scrim Back Non-Woven Belts

These belts are ideal for deburring, blending of tool marks, cleaning off coatings and making beautiful scratch patterns. All Non-Woven Belts are made with #4 butt joint only. Call for price and availability of other sizes. PLEASE

NOTE: All belt materials are low stretch material.

BROWN = COARSE • MAROON = MEDIUM • BLUE-GRAY = VERY FINE



File Belts

PRICE PER BELT

Size	Very Fine/Medium/Coarse
1/2" x 18"	\$5.49
1/2" x 20 1/2"	5.82
1/2" x 24"	6.16
3/4" x 18"	7.65
3/4" x 20 1/2"	8.22
1" x 18"	8.19
1" x 24"	9.51
1 1/8" x 21"	9.08
1 1/4" x 20 1/2"	9.08
1 1/2" x 18 15/16"	9.66



Wide Belts

PRICE PER BELT

Size	Very Fine/Medium/Coarse
19" x 48"	\$163.98
36" x 60"	413.75
36" x 75"	498.75
37" x 60"	433.77
37" x 75"	522.98

Backstand Sander Sizes

PRICE PER BELT

Size	Very Fine/Medium/Coarse
2" x 118"	\$44.09
2" x 132"	48.51
3" x 118"	61.62
3" x 132"	67.63
4" x 118"	83.06
4" x 132"	91.10
4" x 168"	111.79

Platen Sander Sizes

PRICE PER BELT

Size	Very Fine/Medium/Coarse
1" x 30"	\$10.81
1" x 42"	13.42
1 1/2" x 60"	19.56
2" x 30"	16.29
2" x 42"	20.07
2" x 48"	21.96
2" x 60"	25.76
2" x 72"	29.55
2 1/2" x 60"	34.69
3" x 24"	21.30
3 1/2" x 15 1/2"	23.52
4" x 24"	29.01
4" x 36"	35.90
6" x 48"	60.03

A non-woven step in stainless finishing produces a darker, glossy finish.

Non-Woven medium to achieve #4 finish on graining stainless.

Both the Hyperflex (NWH) and standard NWA material are Heavy Duty Scrim Back. The advantages of the Hyperflex are a more "open coat" material and more comfortable across the width of the belt. Both can be used in disc form as well. The open coat of NWH will help with heat and loading issues. A disadvantage of the Hyperflex is that it will stretch in high tension robotic applications.

Non-Woven Rolls

Clean & Polish, Lightweight

PRICE PER ROLL

Size	Very Fine - S/C	Medium - A/O	Coarse- A/O
4" x 30 Feet	\$57.13	\$70.14	\$100.35
6" x 30 Feet	85.20	104.53	139.85

S/C = Silicon Carbide • A/O = Aluminum Oxide



FLAP DISCS

BONDED

NON-WOVEN

QUICK CHANGE

BELTS

ROLLS

SHEETS

FLAPWHEELS

SPECIALTY

DISCS

SAFETY

POWER TOOLS

REFERENCE

Non-Woven Discs

Use Non-Woven Discs to perform a variety of functions including deburring, blending, and cleaning on all metal types. BROWN = COARSE • MAROON = MEDIUM • BLUE-GRAY = VERY FINE

Great on aluminum

Heavy Duty Scrim Back - **Must be used with long hook back up pads**

PRICE PER PACK

Size	Quantity Per Pack	Very Fine	Medium	Coarse
4" x NH	10	\$23.06	\$23.06	\$23.06
4" x 5/8"	10	23.06	23.06	23.06
4 1/2" x NH	10	28.47	28.47	32.16
4 1/2" x 7/8"	10	28.47	28.47	32.16
5" x NH	10	33.63	33.63	38.55
5" x 7/8"	10	33.63	33.63	38.55
6" x NH	10	46.63	46.63	53.14
7" x NH	10	57.93	57.93	65.78
7" x 7/8"	10	57.93	57.93	65.78
8" x NH	10	79.78	79.78	90.95

Clean & Polish - Lightweight - **Must be used with short hook back up pads**

PRICE PER PACK

Size	Quantity Per Pack	Very Fine	Medium	Coarse
5" x NH	10	\$19.96	\$19.96	19.96
6" x NH	10	28.42	28.42	28.42
6" x 1/2"	10	28.42	28.42	28.42
8" x NH	10	49.39	49.39	49.39
8" x 1/2"	10	49.39	49.39	49.39

High Strength - for Edgework

PRICE PER PACK

Size	Quantity Per Pack	Medium
8" x 1/2"	10	\$89.55

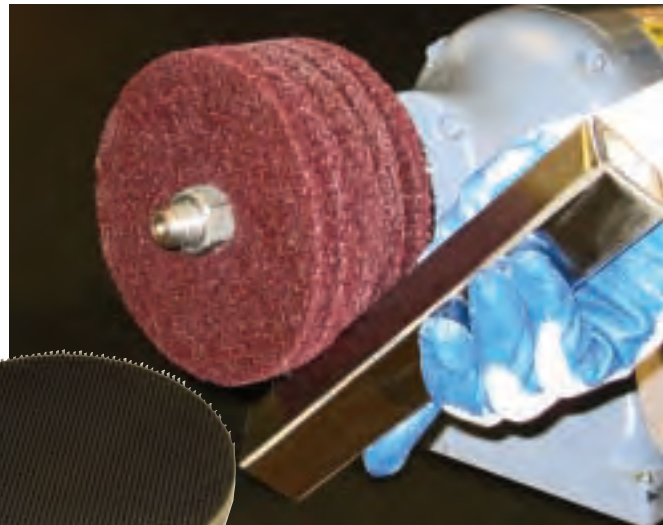
Other sizes available. Call for Availability.

Backing Pads - Non-Woven

For Right Angle Grinders - Long Hook

Size	Item #	PRICE PER PAD
4" (5/8 - 11)	FJ40G	\$21.98
4 1/2" (5/8 - 11)	FJ45G	22.53
5" (5/8 - 11)	FJ50G	22.79
6" (5/8 - 11)	FJ60G	23.57
7" (5/8 - 11)	FJ70G	25.48
8" (5/8 - 11)	FJ80G	25.48

PLEASE NOTE BEFORE ORDERING: Long Hook Pads are for use with HD Scrim Back non-woven materials on a right angle grinder only!



Non-Woven Hand Pads

Use these hand pads as a replacement for steel wool to remove rust or to clean and polish metal surfaces.

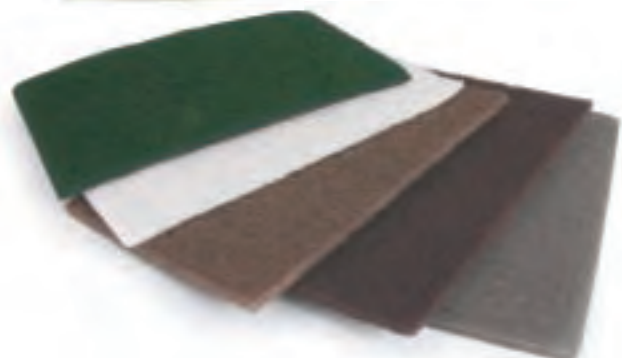
6" x 9" Non-Woven Hand Pads

MATERIAL #	COLOR	QUANTITY PER PACK	PRICE PER PACK
4396 General Purpose/Very Fine	Green	10	\$9.12
4660 Fine	Maroon	10	11.86
4630 Ultra fine	Gray	10	11.86
4223 No Abrasive	White	10	11.86
4790 Coarse (Extra Cut)	Brown	10	23.15



6" x 4 1/2" HAND PAD HOLDER
uses 1/2 of standard size hand pad

List Price.....\$4.01



NON WOVEN



QUICK CHANGE DISCS

Quick change discs are staple items in many production shops. They offer instant disc changes and are very effective for general purpose grinding, blending, deburring, and removal of weld beads and flash. Three popular styles are available - the Quick Disc Connect (QDC), the Quick Roll Connect (QRC), and the Quick Metal Connect (QMC). Each of our quick change discs types are available in aluminum oxide, alumina zirconia, alumina zirconia lubed and CERAMIC ALUMINUM OXIDE with a dry lubricant added. You'll find just the right material to fit your particular application. All styles are also produced with non-woven materials as well.

KLINGSPOR QDC (Quick Disc Connect) Discs

QDCs are staple items in many production shops. They offer instant disc changes, assurance that the disc is centered and smooth running. All QDCs work well on flat surfaces and most will perform well on contoured surfaces, too.



STEEL MANDRELS FOR QDC DISCS - 1/4" SHANK



For 1", 1 1/2" QDC Discs
 \$5.53 each

For 2", 3", 4" QDC Discs
 \$6.93 each

Great For Use With Dynabrade Tool #52317!

For optimum flexibility use larger abrasive discs on smaller backing plate

ALUMINUM OXIDE Must be used with KLINGSPOR's Steel Mandrels.

PRICE PER BOX

Diameter	Box Quantity	Maximum RPM	100 Grit & Finer	80 Grit	60 Grit	50 Grit	40 Grit	36 Grit	24 Grit
3/4"	100	30,000	\$47.49	\$47.49	\$49.14	\$50.40	\$52.37	\$53.79	\$56.29
1"	100	30,000	47.49	47.49	49.14	50.40	52.37	53.79	56.29
1 1/2"	100	30,000	58.96	58.96	59.75	61.72	61.72	62.30	66.20
2"	100	20,000	84.61	86.34	87.45	90.94	93.44	98.18	105.21
3"	50	20,000	54.00	55.20	56.43	58.03	59.84	61.68	65.85
4"	25	20,000	45.21	46.24	47.24	48.59	50.15	51.66	55.15



ALUMINA ZIRCONIA Must be used with KLINGSPOR's Steel Mandrels.

PRICE PER BOX

Diameter	Box Quantity	Maximum RPM	120 Grit	80 Grit	60 Grit	50 Grit	40 Grit	36 Grit	24 Grit
3/4"	100	30,000	\$56.98	\$56.98	\$58.97	\$60.50	\$62.85	\$64.73	\$67.95
1"	100	30,000	56.98	56.98	58.97	60.50	62.85	64.73	67.95
1 1/2"	100	30,000	70.73	70.73	71.71	74.07	74.07	75.64	79.52
2"	100	20,000	101.53	103.61	104.94	109.16	112.13	117.81	126.48
3"	50	20,000	64.79	66.22	67.71	69.56	71.83	73.99	78.80
4"	25	20,000	54.43	55.62	56.88	58.48	60.31	62.18	66.19



ALUMINA ZIRCONIA - LUBRICATED Must be used with KLINGSPOR's Steel Mandrels.

PRICE PER BOX

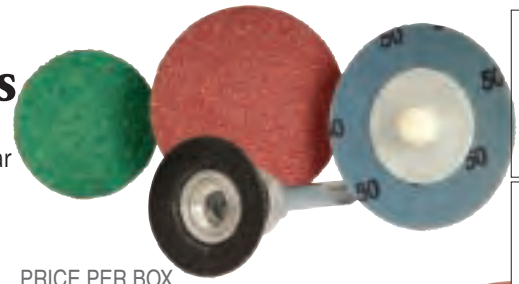
Diameter	Box Quantity	Maximum RPM	120 Grit	80 Grit	60 Grit	50 Grit	40 Grit	36 Grit
3/4"	100	30,000	\$68.37	\$68.37	\$70.75	\$72.59	\$75.44	\$77.66
1"	100	30,000	68.37	68.37	70.75	72.59	75.44	77.66
1 1/2"	100	30,000	84.90	84.90	86.08	88.87	88.87	90.77
2"	100	20,000	121.85	124.34	125.94	130.98	134.57	141.39
3"	50	20,000	77.72	79.45	81.25	83.51	86.20	88.80
4"	25	20,000	65.32	66.72	68.27	70.17	72.41	74.60



QRC (Quick Roll Connect) Discs

QRC discs feature a common male (screw type) hub on the back of the disc. These discs mount easily into our standard Quick Roll Connect holder pad or into the popular Roloc® holder pad with a simple half turn. Stays secure through use of the disc.

RPM speeds on this product are the same as Holder Pads (see below)



ALUMINUM OXIDE Must be used with KLINGSPOR's Holder Pads.

PRICE PER BOX

Diameter	Box Quantity	100 Grit & Finer	80 Grit	60 Grit	50 Grit	40 Grit	36 Grit	24 Grit
1 1/2"	100	\$58.96	\$58.96	\$59.75	\$61.72	\$61.72	\$62.30	\$66.20
2"	100	84.61	86.34	87.45	90.94	93.44	98.18	105.21
3"	50	54.00	55.20	56.43	58.03	59.84	61.68	65.85

ALUMINA ZIRCONIA Must be used with KLINGSPOR's Holder Pads.

PRICE PER BOX

Diameter	Box Quantity	120 Grit	80 Grit	60 Grit	50 Grit	40 Grit	36 Grit	24 Grit
1 1/2"	100	\$70.73	\$70.73	\$71.71	\$74.07	\$74.07	\$75.62	\$79.52
2"	100	101.53	103.61	104.94	109.16	112.13	117.81	126.50
3"	50	64.78	66.22	67.71	69.56	71.83	73.99	78.80

ALUMINA ZIRCONIA - LUBRICATED Must be used with KLINGSPOR's Holder Pads.

PRICE PER BOX

Diameter	Box Quantity	120 Grit	80 Grit	60 Grit	50 Grit	40 Grit	36 Grit	36 Grit
2"	100	\$121.85	\$124.34	\$125.94	\$130.98	\$134.57	\$141.39	
3"	50	77.72	79.45	81.25	83.51	86.20	88.80	

QMC (Quick Metal Connect) Discs

QMC Discs feature a metal locking device centered on the back of the disc that simply twists into the all-metal attachment on the holder pad to lock into place. These discs must be used with the Quick Metal Connect holder pad or the popular SocAtt® style holder pad.

ALUMINUM OXIDE Must be used with KLINGSPOR's Holder Pads.

Diameter	Box Quantity	100 Grit & Finer	80 Grit	60 Grit	50 Grit	40 Grit	36 Grit	24 Grit
1 1/2"	100	\$58.96	\$58.96	\$59.75	\$61.72	\$61.72	\$62.30	\$66.20
2"	100	84.61	86.34	87.45	90.94	93.44	98.18	105.21
3"	50	54.00	55.20	56.43	58.03	59.84	61.68	65.85

ALUMINA ZIRCONIA Must be used with KLINGSPOR's Holder Pads.

Diameter	Box Quantity	120 Grit	80 Grit	60 Grit	50 Grit	40 Grit	36 Grit	24 Grit
1 1/2"	100	\$70.73	\$70.73	\$71.71	\$74.07	\$74.07	\$75.62	\$79.52
2"	100	101.53	103.61	104.94	109.16	112.13	117.81	126.50
3"	50	64.78	66.22	67.71	69.56	71.83	73.99	78.80

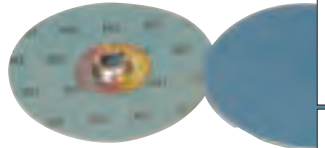
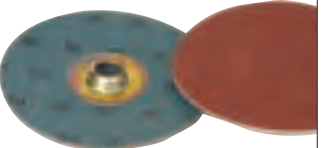
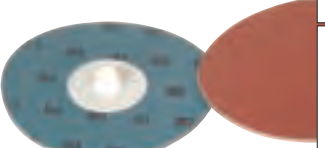
ALUMINA ZIRCONIA - LUBRICATED Must be used with KLINGSPOR's Holder Pads.

Diameter	Box Quantity	120 Grit	80 Grit	60 Grit	50 Grit	40 Grit	36 Grit	36 Grit
2"	100	\$121.85	\$124.34	\$125.94	\$130.98	\$134.57	\$141.39	
3"	50	77.72	79.45	81.25	83.51	86.20	88.80	

Holder Pads FOR QRC & QMC DISCS

PRICE PER HOLDER

Disc Diameter	Density	Max RPM	QRC #	Price
1 1/2"	Medium	25,000	(QM) (QR) HOLDER1.5MED	13.80
1 1/2"	Firm	30,000	(QM) (QR) HOLDER1.5FIRM	13.80
2"	Medium	25,000	(QM) (QR) HOLDER2.0MED	14.34
2"	Firm	30,000	(QM) (QR) HOLDER2.0FIRM	14.34
3"	Medium	20,000	(QM) (QR) HOLDER3.0MED	16.74
3"	Firm	20,000	(QM) (QR) HOLDER3.0FIRM	16.74



FLAP DISCS
BONDED
NON-WOVEN
QUICK CHANGE
BELTS
ROLLS
SHEETS
FLAPWHEELS
SPECIALTY
DISCS
SAFETY
POWERTOOLS
REFERENCE

Ceramic Quick Change Discs

QDC

Must be used with KLINGSPOR's Steel Mandrels.

PRICE PER BOX

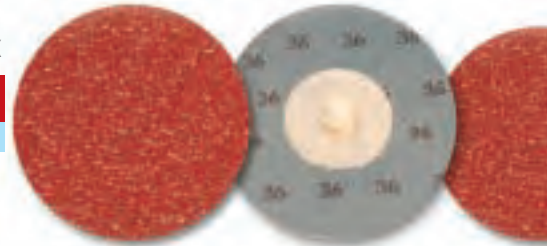
Diameter	Box Quantity	60 Grit	50 Grit	36 Grit
2"	100	\$127.08	\$130.98	\$141.39
3"	50	80.99	83.51	88.80



QRC

PRICE PER BOX

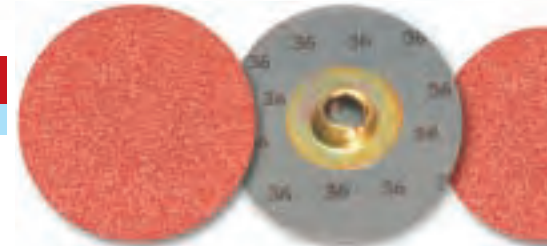
Diameter	Box Quantity	60 Grit	50 Grit	36 Grit
2"	100	\$127.08	\$130.98	\$141.39
3"	50	80.99	83.51	88.80



QMC

PRICE PER BOX

Diameter	Box Quantity	60 Grit	50 Grit	36 Grit
2"	100	\$122.31	\$126.06	\$141.39
3"	50	77.95	80.38	88.80



NOTE: MAXIMUM RPM'S FOR QRC DISCS ARE THE SAME AS THE MAXIMUM RPM RATINGS OF THE HOLDER PAD USED TO DRIVE THE DISCS. [SEE PAGE 23 FOR THESE RATINGS.](#)

Non-Woven Quick Change Discs

QDC

Must be used with KLINGSPOR's Steel Mandrels.

PRICE PER BOX

Diameter	Box Quantity	Very Fine	Medium	Coarse
2"	25	\$37.81	\$37.81	\$37.81
3"	25	71.66	71.66	71.66



QRC

PRICE PER BOX

Diameter	Box Quantity	Very Fine	Medium	Coarse
2"	25	\$37.81	\$37.81	\$37.81
3"	25	71.66	71.66	71.66



NOTE: MAXIMUM RPM'S FOR QRC DISCS ARE THE SAME AS THE MAXIMUM RPM RATINGS OF THE HOLDER PAD USED TO DRIVE THE DISCS.

QMC

PRICE PER BOX

Diameter	Box Quantity	Very Fine	Medium	Coarse
2"	25	\$37.81	\$37.81	\$37.81
3"	25	71.66	71.66	71.66





ABRASIVE BELTS

To meet the needs of the most demanding applications, KLINGSPOR offers one of the most diverse groups of materials for abrasive belts. Sanding and/or grinding with belts is one of the most effective and efficient methods for achieving all types of surface finishes. Common applications are found in all forms of manufacturing whether in metal, wood, glass, plastics, rubber or any number of different substrates. KLINGSPOR belts have long been revered in the industry for their longevity, cutting power, and price. Choose KLINGSPOR abrasive belts for *The Most Sanding Power for Your Money!*[®]

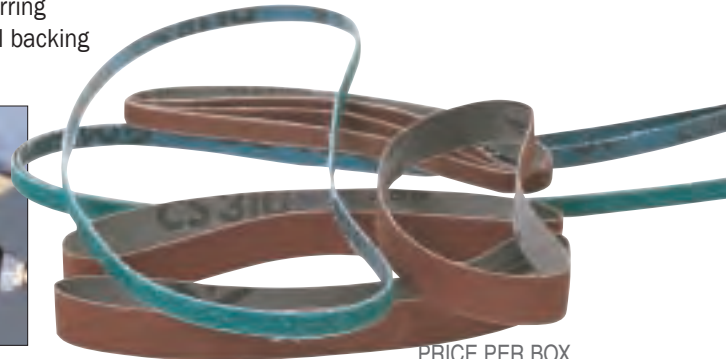
File Belts

Grind away small welds or deburr in hard-to-reach areas.

ALUMINUM OXIDE

These aluminum oxide belts will handle most small weld removal and deburring applications. The durable aluminum oxide grains combined with our special backing make the perfect belt for these small yet abrasive tools.

Approved Dynafile Materials:
 CS310XF, CS710XF, CS308Y,
 CS411Y, CS409Y, CS416Y, CS610,
 CS612, Non-Woven



PRICE PER BOX

Belt Sizes	Box Quantity	100 Grit & Finer	80 Grit	60 Grit	50 Grit	40 Grit
* 1/8" x 12", 1/4" x 12", 1/2" x 12"	10	\$9.42	\$9.42	\$9.42	\$9.42	\$9.42
1/8" x 18", 1/4" x 18", 1/2" x 18"	10	10.44	10.44	10.44	10.44	10.44
* 1/4" x 20 1/2", 1/2" x 20 1/2"	10	11.48	11.48	11.48	11.48	11.48
1/8" x 24", 1/4" x 24", 1/2" x 24"	10	12.51	12.51	12.51	12.51	12.51
1/4" x 30", 1/2" x 30"	10	13.55	13.55	13.55	13.55	13.55
3/8" x 13"	10	10.15	10.15	10.15	10.15	10.15
5/8" x 18", 3/4" x 18"	10	12.66	12.66	12.66	12.66	12.66
5/8" x 20 1/2", 3/4" x 20 1/2"	10	13.55	13.55	13.55	13.55	13.55
5/8" x 24", 3/4" x 24"	10	14.56	14.56	14.56	14.56	14.56

* 1/8" wide belts are not guaranteed against breakage. All belts with #4 (butt splice) only.

Premium - CS 409 Y - ALUMINA ZIRCONIA DRY LUBRICANT

A lubricated alumina zirconia material, CS 409 is ideal for tougher metals and for heavier weld beads and burrs.

The dry lubricant aids in the reduction of generated heat.

PRICE PER BOX

Belt Sizes	Box Quantity	120 Grit	80 Grit	60 Grit	50 Grit	40 Grit	36 Grit
* 1/8" x 12", 1/4" x 12", 1/2" x 12"	10	\$12.51	\$12.51	\$12.51	\$12.51	\$12.51	\$12.51
1/8" x 18", 1/4" x 18", 1/2" x 18"	10	13.55	13.55	13.55	13.55	13.55	13.55
1/4" x 20 1/2", 1/2" x 20 1/2"	10	14.74	14.74	14.74	14.74	14.74	14.74
1/8" x 24", 1/4" x 24", 1/2" x 24"	10	15.59	15.59	15.59	15.59	15.59	15.59
1/4" x 30", 1/2" x 30"	10	16.61	16.61	16.61	16.61	16.61	16.61
3/8" x 13"	10	13.26	13.26	13.26	13.26	13.26	13.26
5/8" x 18", 3/4" x 18"	10	15.14	15.14	15.14	15.14	15.14	15.14
5/8" x 20 1/2", 3/4" x 20 1/2"	10	16.32	16.32	16.32	16.32	16.32	16.32
5/8" x 24", 3/4" x 24"	10	17.66	17.66	17.66	17.66	17.66	17.66

* 1/8" wide belts are not guaranteed against breakage. All belts with #4 (butt splice) only.



PRICE PER BOX

Ceramic File Belts

CERAMIC ALUMINUM OXIDE YY WEIGHT BACKING

Belt Size	Box Quantity	80 Grit	60 Grit	50 Grit	36 Grit
1/4" x 18", 1/2" x 18"	10	\$15.58	\$15.58	\$15.58	\$15.58
1/4" x 20 1/2", 1/2" x 20 1/2"	10	16.95	16.95	16.95	16.95
1/4" x 24", 1/2" x 24"	10	17.95	17.95	17.95	17.95
5/8" x 18", 3/4" x 18"	10	17.44	17.44	17.44	17.44
5/8" x 24", 3/4" x 24"	10	20.29	20.29	20.29	20.29



Portable Belts

The ultimate in life and consistency. Premium components offer extended use in metal applications

CS 311 YX ALUMINUM OXIDE OPEN COAT YX WEIGHT CLOTH *ACT*

CS 310 X ALUMINUM OXIDE X WEIGHT CLOTH

PRICE PER BOX

Belt Size	Box Quantity	150-100 Grit	80 Grit	60 Grit	40 Grit
*3" x 21"	10	\$27.15	\$27.88	\$29.15	\$31.16
*3" x 24"	10	29.03	29.88	31.29	33.59
4" x 21"	10	45.17	46.18	47.75	50.60
*4" x 24"	10	47.60	48.88	50.60	53.74
4" x 36"	10	57.46	59.19	61.73	66.60
6" x 48"	10	100.91	104.33	109.49	119.34

All belts with #4 (butt splice) only. * **CALL FOR VOLUME DISCOUNTS ON CS 311 MATERIAL.**



Premium Portable Belts

Perfect for heavy stock removal. Use for smoothing metal surfaces.

CS 411 Y ALUMINA ZIRCONIA POLYESTER CLOTH

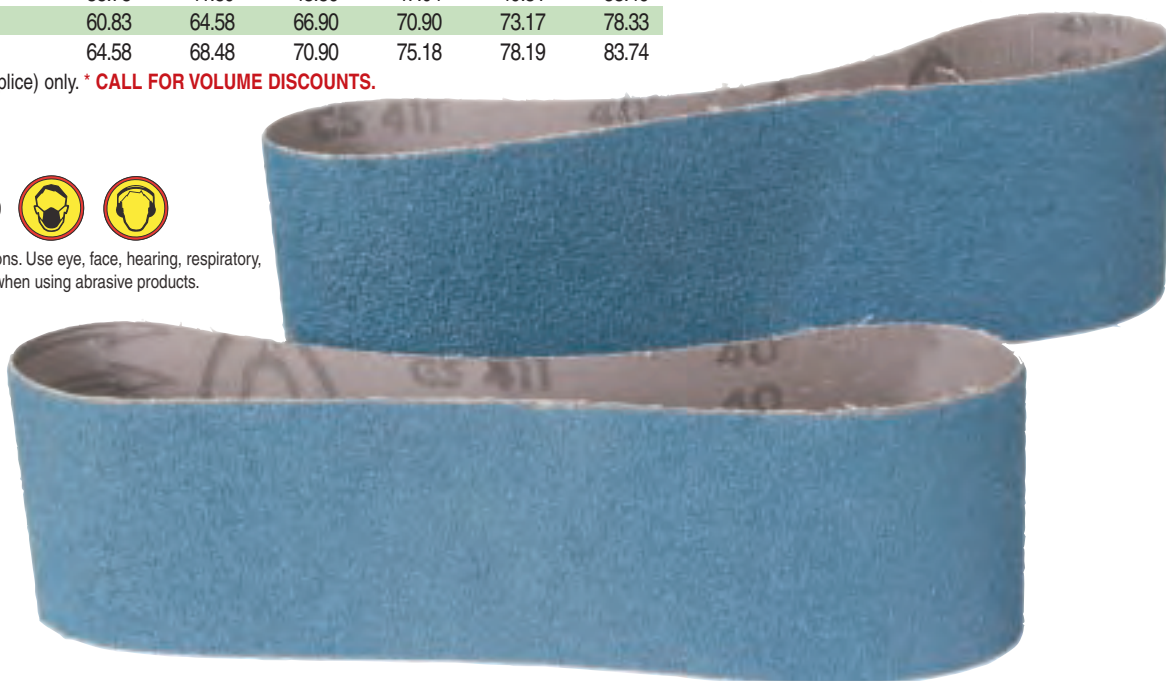
PRICE PER BOX

Belt Size	Box Quantity	120 Grit	80 Grit	60 Grit	40 Grit	36 Grit	24 Grit
*3" x 18"	10	\$33.86	\$36.44	\$37.88	\$40.45	\$41.89	\$45.03
*3" x 21"	10	35.99	39.02	40.88	43.60	45.61	49.31
3" x 23 ³ / ₄ "	10	38.78	41.89	43.86	47.04	49.31	53.46
*3" x 24"	10	38.78	41.89	43.86	47.04	49.31	53.46
4" x 21"	10	60.83	64.58	66.90	70.90	73.17	78.33
*4" x 24"	10	64.58	68.48	70.90	75.18	78.19	83.74

All belts with #4 (butt splice) only. * **CALL FOR VOLUME DISCOUNTS.**



Observe appropriate safety regulations. Use eye, face, hearing, respiratory, hand and body protection when using abrasive products.



FLAP DISCS
 BONDED
 NON-WOVEN
 QUICK CHANGE
 BELTS
 ROLLS
 SHEETS
 FLAPWHEELS
 SPECIALTY
 DISCS
 SAFETY
 POWER TOOLS
 REFERENCE

Standard Size Cloth Belts

Whether production sanding or using for occasional clean up, a wide variety of cloth belts are available to suit your need. Use on metal, wood, plastics, stone, etc.

PRICE PER BELT

Belt Size	100 Grit & Finer	80 Grit	60 Grit	50 Grit	40 Grit	36 Grit	24 Grit
1" x 18"	\$2.50	\$2.52	\$2.58	\$2.62	\$2.64	\$2.70	\$2.80
1" x 21"	2.59	2.62	2.67	2.72	2.78	2.83	2.94
1" X 24"	2.67	2.70	2.78	2.84	2.90	2.94	3.01
1" x 30"	2.85	2.89	2.97	3.05	3.12	3.20	3.37
1 1/8" x 21"	2.74	2.78	2.84	2.90	2.96	3.05	3.15
1" x 72"	4.12	4.18	4.42	4.61	4.75	4.95	5.35
1" x 132"	5.93	6.08	6.48	6.77	7.09	7.47	8.21
2" x 42"	4.39	4.49	4.74	4.91	5.10	5.34	5.84
2" x 48"	4.71	4.89	5.11	5.31	5.56	5.82	6.39
2" x 72"	6.10	6.35	6.70	7.01	7.37	7.77	8.60
2" x 118"	8.80	9.15	9.73	10.26	10.83	11.45	12.86
2" x 132"	9.58	9.99	10.64	10.91	11.87	12.58	15.04
3" x 21"	4.67	4.78	4.95	5.10	5.25	5.48	5.80
3" x 24"	4.94	5.05	5.26	5.39	5.52	5.79	6.21
3" x 118"	12.95	13.51	14.47	15.22	16.07	17.08	19.15
3" x 132"	14.11	14.77	15.83	16.62	17.62	18.77	21.03
3 1/2" x 15 1/2"	5.18	5.30	5.44	5.57	5.74	5.88	6.22
4" x 21"	6.21	6.36	6.57	6.77	6.98	7.19	7.70
4" x 24"	6.56	6.73	6.96	7.18	7.42	7.71	8.25
4" x 36"	7.87	8.18	8.52	8.85	9.18	9.61	10.43
4" x 118"	17.14	17.98	19.12	20.24	21.32	22.66	25.32
4" x 132"	18.71	19.68	20.90	22.15	23.39	24.93	27.92
6" x 48"	13.85	14.35	15.05	15.71	16.40	17.20	18.84
6" x 89"	20.75	21.66	22.96	24.17	25.49	26.97	29.97
6" x 132"	27.97	29.32	31.24	33.03	34.13	36.29	42.01

Custom Size Cloth Belts

Create your own abrasive belt for your particular application.

Width	100 Grit & Finer	80 Grit	60 Grit	50 Grit	40 Grit	36 Grit	24 Grit	Joining Charge
1/2"	\$0.0160	\$0.0184	\$0.0184	\$0.0199	\$0.0212	\$0.0219	\$0.0245	\$1.47
3/4"	0.0232	0.0245	0.0266	0.0276	0.0296	0.0320	0.0362	1.47
1"	0.0302	0.0313	0.0343	0.0363	0.0388	0.0417	0.0472	1.97
2"	0.0580	0.0609	0.0659	0.0703	0.0751	0.0806	0.0924	1.97
3"	0.0852	0.0895	0.0979	0.1043	0.1116	0.1198	0.1376	2.90
4"	0.1127	0.1196	0.1295	0.1387	0.1479	0.1595	0.1826	3.86
5"	0.1405	0.1483	0.1618	0.1727	0.1852	0.1992	0.2273	4.82
6"	0.1683	0.1783	0.1928	0.2065	0.2212	0.2378	0.2720	5.80
7"	0.1961	0.2074	0.2250	0.2407	0.2577	0.2776	0.317	6.73
8"	0.2241	0.2364	0.2567	0.2745	0.2940	0.3169	0.3620	7.71
9"	0.2511	0.2657	0.2885	0.3085	0.3303	0.3558	0.4071	8.67
14"	0.3889	0.4120	0.4477	0.4783	0.5129	0.5524	0.6321	13.46
36"	0.7843	0.8305	0.9018	0.9654	1.0353	1.1159	1.2771	28.97
50"	1.0841	1.1488	1.2480	1.3364	1.4330	1.5449	1.7685	40.26
51"	1.1273	1.1944	1.2971	1.3889	1.4902	1.6060	1.8389	41.82
52"	1.1701	1.2398	1.3467	1.4424	1.5467	1.6675	1.9090	43.46
53"	1.1701	1.2398	1.3467	1.4424	1.5467	1.6675	1.9090	43.46

PRICE CALCULATION FOR CUSTOM SIZE BELTS

1. Locate price according to width and grit size.
2. Multiply price by length in inches (if fraction, use next full inch).
3. Add joining charge in last column.
4. Multiply by applicable up charge, if necessary.
5. Rounding off to second decimal place equals retail price.

EXAMPLE:

$$\begin{array}{r}
 \text{CS 310 } 100 \times 2" \times 132" \#4 \\
 (1,2) \$.0580 \times 132" = \$7.656 \\
 (3) \qquad \qquad \qquad +\$1.97 \\
 \hline
 \qquad \qquad \qquad \qquad \qquad \$9.626 \\
 (5) \qquad \qquad \qquad \qquad \qquad \$9.63
 \end{array}$$

Call if you need assistance with a custom belt.



AVAILABLE MATERIALS

- CS 308 A/O YX wt Cloth
 - LS 309 A/O J/JF wt Cloth
 - CS 310 A/O X wt Cloth
 - CS 311 A/O Open Coat **ACT** YX wt Cloth
 - LS 312* A/O Dry-Lube JF wt Cloth
 - LS 313** A/O Dry-Lube for SS JF wt Cloth
 - LS 318 A/O Open Coat **ACT** JF wt cloth
 - CS 320* S/C YX wt Cloth
 - CS 321* S/C Waterproof YX/X wt Cloth
 - CS 333 S/C X/J/JF wt Cloth
 - CS 341* A/O Waterproof X wt Cloth
 - CS 412* A/O YX wt Cloth
 - CS 413* A/O Open Coat YX wt Cloth
 - CS 710* Heat-Treated XF Wt. Cloth
- LINEN MATERIAL BELTS***
- * Add 5% to price shown
 - ** Add 10% to price shown
 - *** Up to 35" widths only

MORE SIZES ARE AVAILABLE! PLEASE CALL 800-645-5555

AVAILABLE MATERIALS

- CS 308 A/O YX wt Cloth
 - LS 309 A/O J/JF wt Cloth
 - CS 310 A/O X wt Cloth
 - CS 311 A/O Open Coat **ACT** YX wt Cloth
 - LS 312* A/O Dry-Lube JF wt Cloth
 - LS 313** A/O Dry-Lube for SS JF wt Cloth
 - CS 318 JF 80 - 180 JF cotton cloth backing A/S, **ACT** bonding with an open coat.
 - CS 320* S/C Waterproof YY wt
 - CS 321* S/C Waterproof YX/X wt Cloth
 - CS 333 S/C X/J/JF wt Cloth
 - CS 341* A/O Waterproof X wt Cloth
 - CS 412* A/O YX wt Cloth
 - CS 413* A/O Open Coat YX wt Cloth
 - CS 710* Heat-Treated XF Wt. Cloth
- LINEN MATERIAL BELTS***
- * Add 5% to price shown
 - ** Add 10% to price shown
 - *** Up to 35" widths only

Custom Size Specialty Polyester Belts

Width	100 Grit & Finer	80 Grit	60 Grit	50 Grit	40 Grit	36 Grit	24 Grit	Joining Charge
1/2"	\$0.0219	\$0.0243	\$0.0268	\$0.0287	\$0.0305	\$0.0342	\$0.0365	\$1.47
5/8"	0.0270	0.0293	0.0324	0.0339	0.0365	0.0416	0.0471	1.47
3/4"	0.0321	0.0343	0.0386	0.0407	0.0432	0.0492	0.0556	1.47
1"	0.0416	0.0439	0.0503	0.0530	0.0565	0.0644	0.0729	1.97
2"	0.0800	0.0855	0.0962	0.1025	0.1092	0.1240	0.1419	1.97
3"	0.1173	0.1253	0.1426	0.1519	0.1628	0.1846	0.2111	2.90
4"	0.1556	0.1675	0.1886	0.2023	0.2156	0.2453	0.2806	3.86
5"	0.1940	0.2075	0.2354	0.2517	0.2696	0.3057	0.3495	4.82
6"	0.2321	0.2491	0.2811	0.3009	0.3226	0.3656	0.4177	5.80
7"	0.2708	0.2892	0.3277	0.3504	0.3758	0.4267	0.4869	6.73
8"	0.3090	0.3303	0.3740	0.3999	0.4288	0.4869	0.5561	7.71
9"	0.3466	0.3710	0.4205	0.4495	0.4817	0.5466	0.6252	8.67
14"	0.5373	0.5753	0.6526	0.6972	0.7477	0.8490	0.9713	13.46
36"	1.0827	1.1603	1.3140	1.4070	1.5088	1.7142	1.9618	28.97
50"	1.4967	1.6047	1.8184	1.9474	2.0882	2.3739	2.7176	40.26
51"	1.5563	1.6681	1.8904	2.0244	2.1711	2.4672	2.8254	41.82
52"	1.6155	1.7316	1.9624	2.1020	2.2540	2.5620	2.9333	43.46
53"	1.6155	1.7316	1.9624	2.1020	2.2540	2.5620	2.9333	43.46

AVAILABLE MATERIALS

CS 326 ¹	A/O Agglomerate
	YX wt Cloth
CS 409 ²	AZ Dry-Lube
	YY/YX wt Cloth
CS 411	A/Z X wt Cloth
CS 411 ³	A/Z YX/YY wt Cloth
CS 416 ³	A/Z YY/YX wt Cloth
CS 811YY ²	A/Z YY/YX Cloth <i>ACT</i>

- ¹ = Final price x 2
² = Add 20% to final price
³ = Add 10% to final price

FLAP DISCS
 BONDED
 NON-WOVEN
 QUICK CHANGE
 BELTS
 ROLLS
 SHEETS
 FLAPWHEELS
 SPECIALTY
 DISCS
 SAFETY
 POWER TOOLS
 REFERENCE



PRICE CALCULATION FOR CUSTOM SIZE BELTS

1. Locate price according to width and grit size.
2. Multiply price by length in inches (if fraction, use next full inch).
3. Add joining charge in last column.
4. Multiply by applicable up charge, if necessary.
5. Rounding off to second decimal place equals retail price.

EXAMPLE:

CS 610 60 Grit 2" x 132" #4	
(1,2) \$.1397 x 132" =	\$18.4404
(3)	+ \$2.86
	\$21.3004
(5)	\$21.30

Call if you need assistance with a custom belt.

Custom Size Ceramic Cloth Belts

Width	80 Grit	60 Grit	50 Grit	36 Grit	Joining Charge
1/2"	\$0.0356	\$0.0390	\$0.0417	\$0.0496	\$2.11
5/8"	0.0432	0.0471	0.0494	0.0605	2.11
3/4"	0.0502	0.0564	0.0590	0.0713	2.11
1"	0.0636	0.0733	0.0773	0.0940	2.86
1 1/4"	0.0794	0.0888	0.0952	0.1156	2.86
1 1/2"	0.0941	0.1060	0.1137	0.1377	2.86
1 3/4"	0.1084	0.1223	0.1314	0.1597	2.86
2"	0.1242	0.1397	0.1490	0.1805	2.86
2 1/4"	0.1385	0.1569	0.1671	0.2023	3.56
2 1/2"	0.1536	0.1738	0.1856	0.2245	3.56
3"	0.1821	0.2079	0.2209	0.2686	4.24
3 1/2"	0.2131	0.2402	0.2577	0.3129	4.91
4"	0.2438	0.2740	0.2940	0.3568	5.64
4 1/2"	0.2736	0.3085	0.3296	0.4011	6.34
5"	0.3019	0.3427	0.3661	0.4449	7.01
6"	0.3622	0.4087	0.4377	0.5314	8.41
7"	0.4208	0.4770	0.5098	0.6206	9.78
8"	0.4806	0.5439	0.5819	0.7084	11.19
9"	0.5399	0.6115	0.6536	0.7953	12.67
10"	0.6003	0.6784	0.7264	0.8833	14.02
11"	0.6588	0.7464	0.7987	0.9720	15.36
12"	0.7186	0.8129	0.8705	1.0597	16.82

AVAILABLE MATERIALS

CS 610² A/O Ceramic, Multibond,
 YY wt Cloth
 (36 Grit Only)

CS 612 A/O Ceramic YY wt Cloth
 (50, 60, and 80 Grit)

² = Add 20% to final price



Custom Size Paper Belts

Design your own paper belt for your application.

Width	100 Grit & Finer	80 Grit	Joining Charge
4"	\$0.0584	\$0.0640	\$4.22
6"	0.0858	0.0939	6.28
8"	0.1136	0.1244	8.35

AVAILABLE MATERIALS

PS 20 A/O F wt Paper

PS 21* A/Z F wt Paper

* Add 20% to final price

PS 22 A/O E wt Paper *ACT*

PRICE CALCULATION FOR CUSTOM SIZE BELTS

1. Locate price according to width and grit size.
2. Multiply price by length in inches (if fraction, use next full inch).
3. Add joining charge in the last column.
4. Multiply by applicable up charge, if necessary.
5. Rounding off to second decimal place equals retail price.

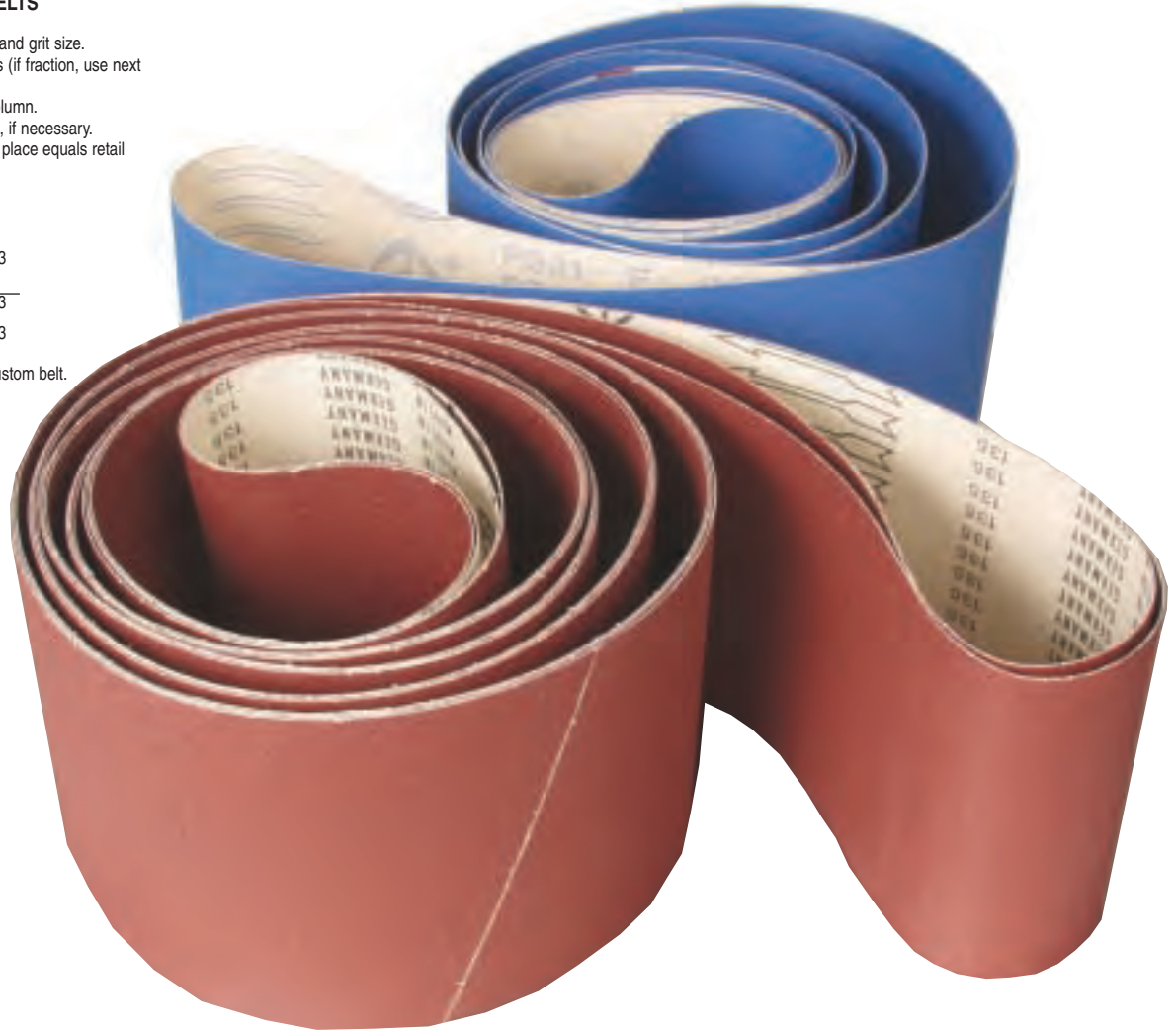
EXAMPLE:

PS 20 80F 6" x 270" #4

(1,2) \$.0939 x 270 = \$25.353
 (3) + \$6.28
 \$31.633

(5) \$31.633

Call if you need assistance with a custom belt.



Standard Size Paper Belts

Choose from popular sizes for stroke sanding, wide belt sanding, etc.

AVAILABLE MATERIALS

PS 20 A/O F wt Paper

PS 21* A/Z F wt Paper * Add 20% to price

PS 22 A/O E wt Paper *ACT*



Observe appropriate safety regulations. Use eye, face, hearing, respiratory, hand and body protection when using abrasive products.

PRICE PER BELT

Belt Size	100 Grit & Finer	80 Grit
6" x 274"	\$29.56	\$31.73
6" x 288"	30.77	33.01
6" x 298"	31.61	33.92
6" x 328"	34.18	36.77
6" x 330"	34.38	36.95
6" x 335"	34.78	37.42
6" x 376"	38.30	41.26
6" x 396"	40.02	43.13



ABRASIVE ROLLS

Many KLINGSPOR materials are available in roll form. Your applications may benefit from being able to fabricate your own sanding pieces from rolls. In addition, KLINGSPOR economy roll materials are quite possibly the very best in the business. For quick touch-up and the sanding of shaped surfaces, KLINGSPOR rolls cannot be beat.



Premium Shop Rolls - 50 Yards

This could very well be the best shop roll material in the world. Numerous applications from maintenance to general quick use make these rolls very versatile. **NOT FOR USE ON DRUM SANDERS!**

KL 361 ALUMINUM OXIDE FLEXIBLE COTTON CLOTH PRICE PER ROLL

Width	100 Grit & Finer	80 Grit	60 Grit	40 Grit
1"	\$41.06	\$43.02	\$50.27	\$57.80
1½"	58.00	59.70	71.54	80.50
2"	73.44	77.11	92.30	107.30
2½"	90.14	94.88	102.48	118.61
3"	108.17	113.86	122.97	142.29
3½"	126.19	132.81	143.43	176.73
4"	144.20	151.80	163.97	189.73
4½"	162.46	171.05	184.63	213.68
6"	216.62	227.99	246.25	285.01

Intermediate widths use next higher list price.

WIDTHS UP TO 12" AVAILABLE UPON REQUEST. CALL FOR PRICES

Economy Rolls - 50 Yards

When the budget is your concern, these Economy Rolls will keep you smiling, and this material will hold its own against most higher-priced shop rolls. **NOT FOR USE ON DRUM SANDERS.**

KL 385 ALUMINUM OXIDE JF WEIGHT CLOTH PRICE PER ROLL

Width	100 Grit & Finer	80 Grit	50 Grit	40 Grit
1"	\$34.89	\$36.59	\$46.01	\$49.12
1½"	49.35	50.73	64.49	68.41
2"	62.43	65.54	87.71	91.21
3"	91.94	96.78	112.26	120.95
4"	122.58	129.05	149.65	161.30
6"	184.12	193.78	224.80	242.27

WIDTHS UP TO 12" AVAILABLE UPON REQUEST. CALL FOR PRICES



Cloth Rolls-100 Meters (109 YARDS)

A multitude of applications can be covered with these cloth rolls from general clean-up to maintenance. KLINGSPOR materials include a realm of aluminum oxide, alumina zirconia, and silicon carbide products.

PRICE PER 100 METER ROLL

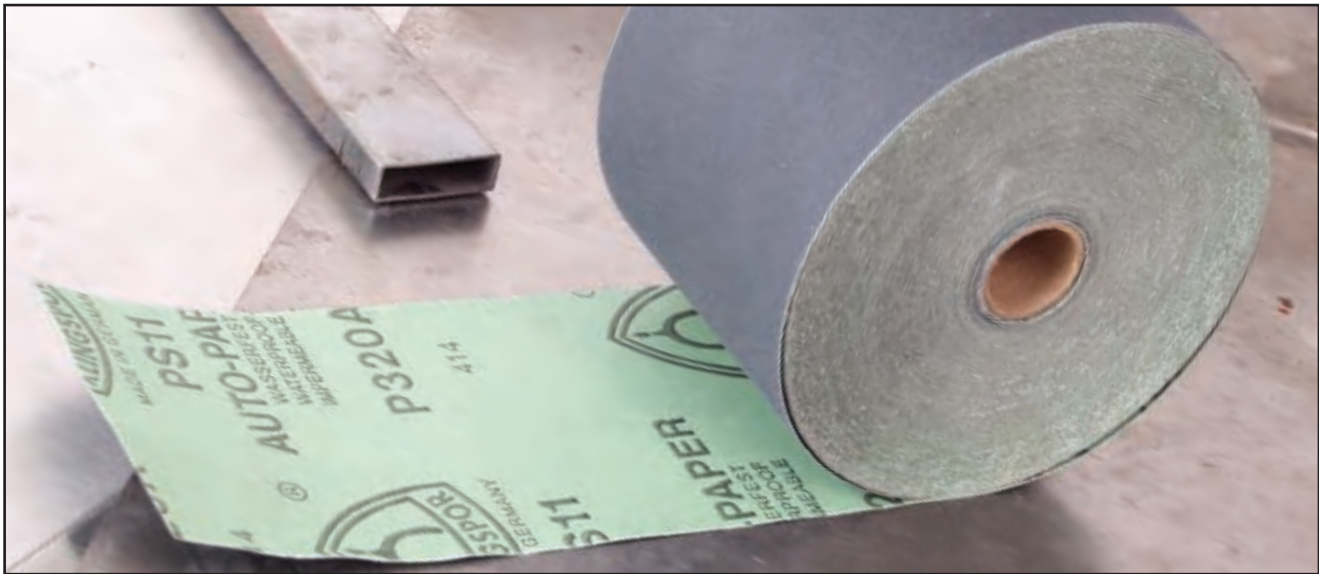
Width	100 & Finer	80 Grit	60 Grit	50 Grit	40 Grit	36 Grit	24 Grit
1"	\$124.55	\$129.75	\$142.33	\$150.18	\$160.12	\$172.65	\$195.71
2"	239.15	251.67	272.08	289.88	310.30	333.32	381.45
3"	351.09	371.52	404.49	417.98	460.45	496.05	567.23
4"	465.18	493.42	533.72	572.44	610.15	658.79	752.95
5"	579.80	612.73	666.09	684.53	712.15	762.89	938.18
6"	694.37	735.17	795.88	851.86	913.09	981.62	1,121.35

25 meter (27 yards) rolls available at 75% off prices shown
 50 meter (54 1/2 yards) rolls available at 50% off prices shown



AVAILABLE MATERIALS			
CS 308	A/O YX wt Cloth	CS 341*	A/O Waterproof X wt Cloth
LS 309	A/O J/JF wt Cloth	CS 412*	A/O YX wt Cloth
CS 310	A/O X wt Cloth	CS 411	A/Z X/YX/YY wt Cloth
CS 311	A/O Open Coat YX wt Cloth <i>ACT</i>	CS 411 X	24-36 Grit - Add 40.32% to price shown
LS 312*	A/O Dry-Lube JF wt Cloth		40-60 Grit - Add 33.10% to price shown
LS 313**	A/O Dry-Lube for SS JF wt Cloth		80 Grit - Add 27.56% to price shown
CS 318	JF 80 - 180 JF cotton cloth backing A/S, ACT bonding with an open coat.	CS 411 Y	120 Grit - Add 27.56% to price shown
CS 320*	S/C Waterproof YY wt		24-36 Grit - Add 57.15% to price shown
CS 321*	S/C Waterproof YX/X wt Cloth		40-60 Grit - Add 49.71% to price shown
CS 333	S/C X/J/JF wt Cloth	CS 710*	80 Grit - Add 46.05% to price shown
			120 Grit - Add 31.14% to price shown
			Heat-Treated XF Wt. Cloth <i>ACT</i>

* Add 5% to price shown ** Add 10% to price shown



Waterproof Paper Rolls

PS 11 SILICON CARBIDE A/C WEIGHT PAPER

PRICE PER 100 METER ROLL

Width	220 Grit & Finer	180 Grit	150 Grit	120 Grit	100 Grit	80 Grit
4" x 100 meters	\$158.04	\$165.77	\$177.12	\$188.86	\$218.58	\$250.08
6" x 100 meters	237.09	248.65	265.68	283.33	327.84	375.17

25 meter (27 yard) rolls available at 75% off prices shown
 50 meter (54 1/2 yards) rolls available at 50% off prices shown

FLAP DISCS
 BONDED
 NON-WOVEN
 QUICK CHANGE
 BELTS
ROLLS
 SHEETS
 FLAPWHEELS
 SPECIALTY
 DISCS
 SAFETY
 POWER TOOLS
 REFERENCE

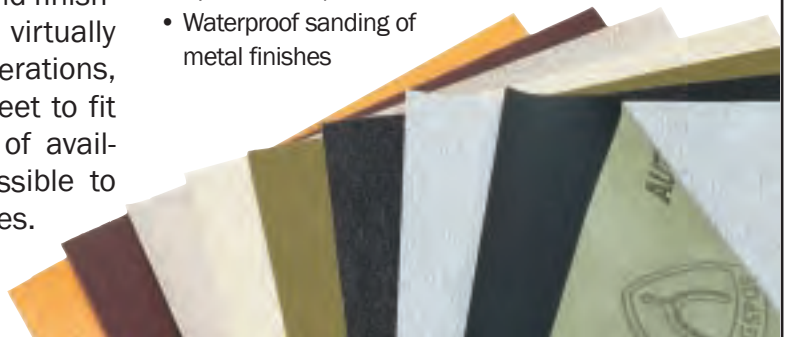


ABRASIVE SHEETS

For some applications, sheet sanding is still the best alternative. Sheets are important when working with some of the complicated new finishes that are used in woodworking, the paint and clear-coat businesses, solid surface materials sanding, and many metallurgical testing and finishing situations. For these and virtually any other sheet sanding operations, KLINGSPUR has just the sheet to fit your need. The wide array of available products makes it possible to sand and finish most surfaces.

SHEET USAGES

- Sanding of solid surface countertops and seams
- File board sanding of auto-body filler
- Clear coat sanding
- Removal of paint and other metal finishes
- General metal clean-up
- Metallurgical testing
- Spot rust and/or scale removal
- Waterproof sanding of metal finishes



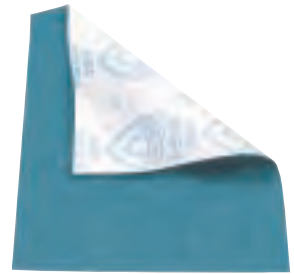
STANDARD SIZE SHEETS

Sheets for every purpose are available for almost any hand sanding or power sheet sanding application. Hand-sanded surfaces cannot be beat when it comes down to final finishing.

PS 36 ALUMINA ZIRCONIA STEARATE C/D WEIGHT PAPER

PRICE PER PACK

Size	Pack Quantity	100C Grit & Finer	80C Grit	60C Grit	40D Grit	36D Grit
9" x 11"	50	\$54.13	\$59.53	\$67.65	\$84.78	\$100.82
4 1/2" x 11"	100	61.34	68.55	77.57	97.44	115.85
3 2/3" x 9"	100	41.51	46.89	52.30	64.94	77.22
4 1/2" x 5 1/2"	100	30.66	32.48	39.68	48.70	57.89



PS 11 SILICON CARBIDE WATERPROOF A/C WEIGHT PAPER

PRICE PER PACK

Size	Pack Quantity	2000A-220A Grit	180C Grit	150C Grit	120C Grit	100C Grit	80C Grit	60C Grit
9" x 11"	50	\$44.84	\$48.59	\$51.55	\$54.55	\$62.76	\$71.73	\$84.46
4 1/2" x 11"	100	50.81	55.32	58.29	62.76	71.73	82.21	97.16
3 2/3" x 9"	100	34.40	37.38	40.36	41.83	47.82	55.32	64.26
4 1/2" x 5 1/2"	100	23.90	26.92	28.39	31.39	37.38	41.83	49.31



PS 10 GARNET A/C/D WEIGHT PAPER

PRICE PER PACK

Size	Pack Quantity	220A Grit	180A Grit	150A Grit	120A Grit	100A Grit	80A Grit
9" x 11"	50	\$23.90	\$23.90	\$23.90	\$23.90	\$23.90	\$28.39

C and D weight paper is available. Call for price and availability.



PS 33 ALUMINUM OXIDE STEARATE B/C WEIGHT PAPER

PRICE PER PACK

Size	Pack Quantity	600B-150B Grit	120C-100C Grit	80C Grit	60C Grit	40C Grit
9" x 11"	50	\$44.84	\$44.84	\$49.31	\$56.04	\$70.22
4 1/2" x 11"	100	50.81	50.81	56.79	64.26	80.70
3 2/3" x 9"	100	34.40	34.40	38.84	43.33	53.79
4 1/2" x 5 1/2"	100	25.43	25.43	26.92	32.88	40.36



VP 73W EXTRA-LUBE ALUMINUM OXIDE STEARATE LATEX PAPER

PRICE PER PACK

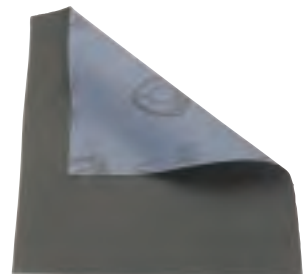
Size	Pack Quantity	100 Grit & Finer	80 Grit
9" x 11"	50	\$51.55	\$56.72
4 1/2" x 11"	100	58.44	65.31
3 2/3" x 9"	100	39.54	44.67
4 1/2" x 5 1/2"	100	29.21	30.95



KL 371 EMERY CLOTH HEAVY COTTON CLOTH

PRICE PER PACK

Size	Pack Quantity	400 - 80 Grit	60 - 50 Grit	40 Grit
9" x 11"	50	\$71.73	\$81.45	\$94.17



FLAP DISCS
BONDED
NON-WOVEN
QUICK CHANGE
BELTS
ROLLS
SHEETS
FLAPWHEELS
SPECIALTY
DISCS
SAFETY
POWERTOOLS
REFERENCE

KL 361 "PREMIUM" ALUMINUM OXIDE CLOTH FLEXIBLE COTTON CLOTH

PRICE PER PACK

Size	Pack Quantity	100 Grit & Finer	80 Grit	60 Grit	40 Grit
9" x 11"	50	\$90.41	\$96.40	\$116.56	\$135.24
4 1/2" x 11"	100	104.62	112.09	134.53	155.43
3 2/3" x 9"	100	68.73	73.23	89.67	103.13
4 1/2" x 5 1/2"	100	52.30	55.32	67.25	76.24



KL 385 ALUMINUM OXIDE CLOTH HEAVY COTTON CLOTH

PRICE PER PACK

Size	Pack Quantity	100 Grit & Finer	80 Grit	50 Grit	40 Grit
9" x 11"	50	\$77.88	\$82.96	\$106.94	\$114.70
4 1/2" x 11"	100	90.12	96.56	123.56	133.88
3 2/3" x 9"	100	59.24	63.04	82.76	87.47
4 1/2" x 5 1/2"	100	45.05	47.58	61.11	64.65



BOARD FILE SHEETS

Make short work of body filler or metal with these popular-sized file board sheets.

PLAIN SHEETS - 2 3/4" X 17 1/2"

PRICE PER BOX

Material	150 Grit & Finer	Box Qty	120 Grit	Box Qty	100 Grit	Box Qty	80 Grit	Box Qty	60 Grit	Box Qty	40 Grit	Box Qty	36 Grit	Box Qty
PS 73W	\$45.01	100	■		■		■		■		■		■	
PS 33	\$39.24	100	\$39.24	100	\$39.24	100	\$21.68	50	\$26.86	50	\$29.75	50	■	
PS 29	■		■		■		\$35.17	50	\$39.96	50	\$47.91	50	■	
PS 20	■		■		■		■		■		■		\$26.51	25
PS 21	\$39.24	50	\$39.24	50	\$39.24	50	\$41.86	50	■		\$56.64	50	\$30.14	25
PS 36	\$27.28	50	\$27.28	50	\$27.28	50	\$30.17	50	\$37.39	50	\$41.44	50	\$22.04	25

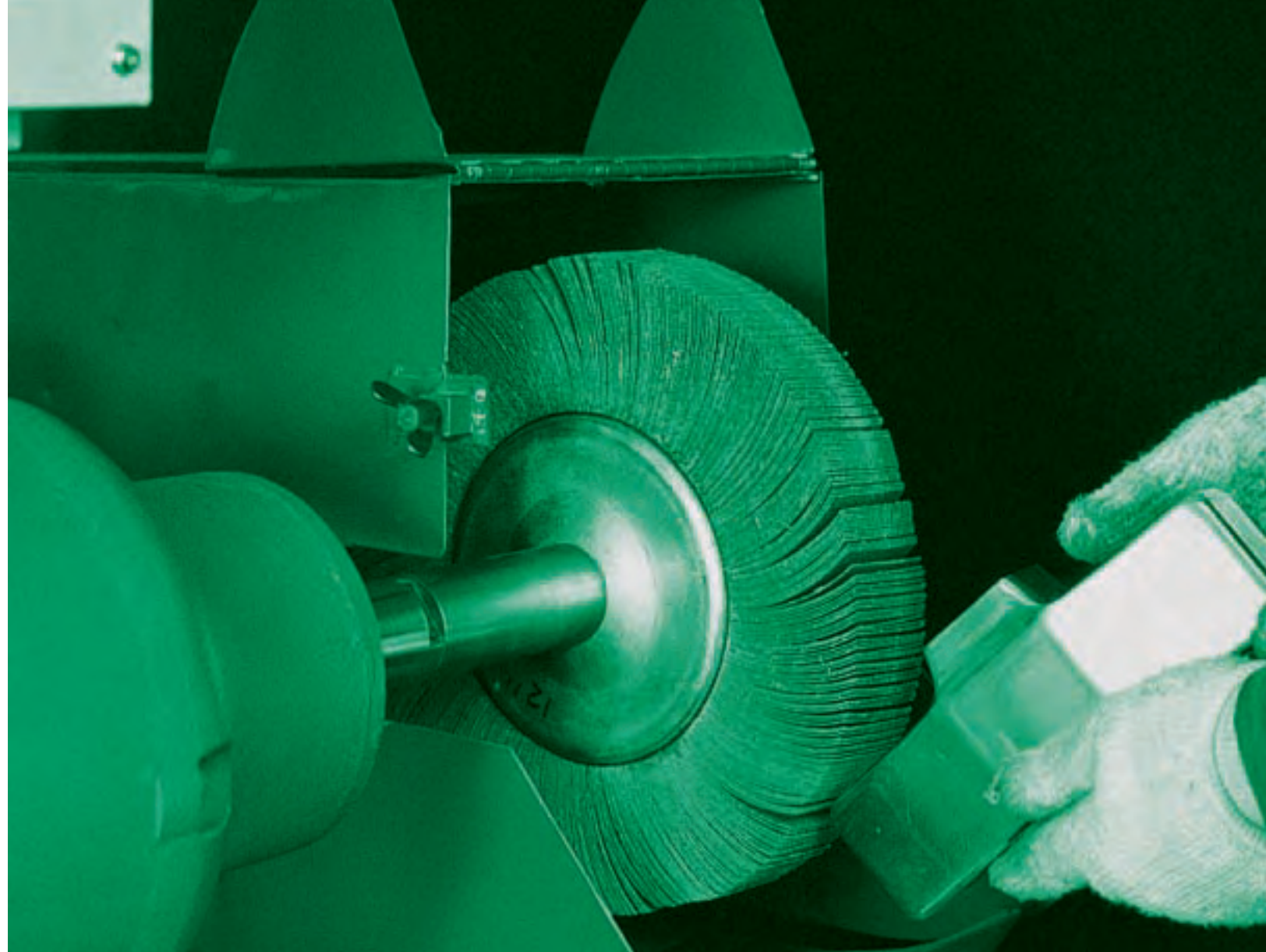
PSA SHEETS - 2 3/4" X 16 1/2"

Material	150 Grit & Finer	Box Qty	120 Grit	Box Qty	100 Grit	Box Qty	80 Grit	Box Qty	60 Grit	Box Qty	40 Grit	Box Qty	36 Grit	Box Qty
PS 73W	\$34.87	50	■		■		■		■		■		■	
PS 33	\$30.49	50	\$30.49	50	\$30.49	50	\$33.40	50	\$37.77	50	\$41.41	50	■	
PS 29	■		■		■		\$45.75	50	\$50.11	50	\$53.74	50	■	
PS 20	■		■		■		■		■		■		\$28.32	25
PS 21	■		\$52.28	50	\$52.28	50	\$54.48	50	\$60.28	50	\$65.35	50	\$32.68	25
PS 36	\$42.43	50	\$42.43	50	\$42.43	50	\$46.49	50	\$52.56	50	\$57.61	50	\$28.81	25

KLING-ON® SHEETS - 2 3/4" X 16 1/2"

Material	150 Grit & Finer	Box Qty	120 Grit	Box Qty	100 Grit	Box Qty	80 Grit	Box Qty	60 Grit	Box Qty	40 Grit	Box Qty	36 Grit	Box Qty
PS 73W	\$49.36	50	■		■		■		■		■		■	
PS 33	\$42.84	50	\$42.84	50	\$42.84	50	\$47.18	50	\$46.49	50	\$48.66	50	■	
PS 29	■		■		■		\$31.23	25	\$34.87	25	\$35.21	25	■	
PS 20	■		■		■		■		■		■		\$38.76	25





ABRASIVE FLAPWHEELS

Often under utilized and misunderstood, flapwheels can play a key role in the finishing of parts made of metal, wood, plastic, and more. The ability of these tools to conform to irregular or flat surfaces is unparalleled, making them ideal choices for many applications. You'll find that our flapwheels offer answers to a myriad of different manufacturing "problems" in edge sanding, flat sanding, and sanding of shaped parts. KLINGSPOR Flapwheels are the most revered in the world because of the durable construction and the longevity they yield.



**SM 611 ABRASIVE
FLAPWHEELS**



**SPINDLE MOUNTED
FLAPWHEELS**



FINISHING FLAPWHEELS



MAC MOP



SM 611 Abrasive Flapwheels

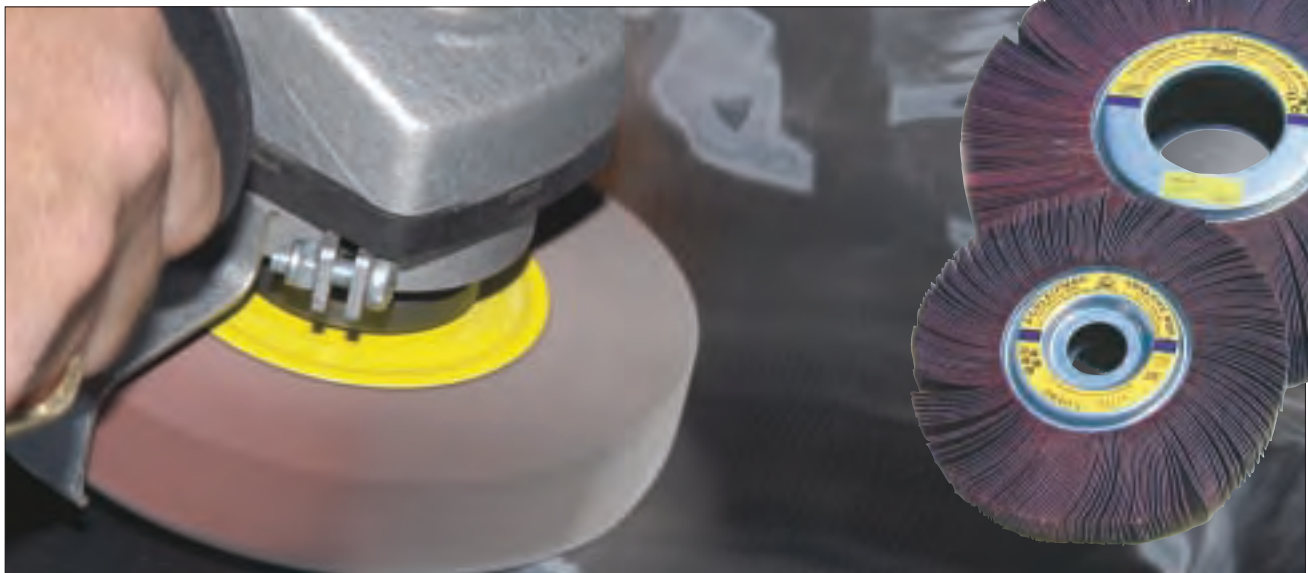
Sand and finish wood or metal contoured parts with these large diameter flapwheels.



Observe appropriate safety regulations. Use eye, face, hearing, respiratory, hand and body protection when using abrasive products.

Diameter x Width x Arbor	Max RPM	320 Grit	240 Grit	220 Grit	180 Grit	120 Grit	100 Grit	80 Grit	60 Grit	50 Grit	40 Grit
4" x 2"	9,500	\$39.37	\$39.37	\$34.63	\$34.63	\$33.09	\$33.09	\$33.09	\$29.05	\$29.05	\$29.05
5 1/2" x 1"	6,800	34.63	34.63	29.05	29.05	26.10	26.10	26.10	23.47	23.47	■
5 1/2" x 2"	6,800	48.75	48.75	43.98	43.98	40.58	40.58	40.58	34.63	34.63	34.63
* 6 1/2" x 1" x 1"	5,800	42.41	42.41	38.53	38.53	32.80	32.80	32.80	29.88	29.88	29.88
* 6 1/2" x 2" x 1"	5,800	69.26	69.26	61.65	61.65	54.05	54.05	54.05	45.27	45.27	45.27
6 1/2" x 3"	5,800	99.14	99.14	■	■	73.31	73.31	73.31	65.55	■	■
* 8" x 1" x 1"	4,800	71.24	71.24	■	63.66	56.29	56.29	56.29	48.75	48.75	48.75
* 8" x 1 3/16" x 1"	4,800	■	■	■	71.24	61.64	61.64	61.64	56.29	■	■
* 8" x 2" x 1"	4,800	123.57	■	108.65	108.65	87.96	87.96	87.96	73.19	73.19	■
10" x 1"	3,800	102.71	102.71	89.56	89.56	77.54	77.54	77.54	61.16	61.16	61.16
10" x 2"	3,800	165.02	165.02	145.81	145.81	126.00	126.00	126.00	108.11	■	108.11
10" x 3"	3,800	213.42	213.42	183.18	183.18	162.50	162.50	162.50	139.37	■	139.37
12" x 1 3/16"	3,200	151.62	151.62	139.37	139.37	■	129.04	129.04	112.12	112.12	■
12" x 2"	3,200	222.99	222.99	193.99	193.99	162.50	162.50	162.50	139.37	139.37	139.37
12" x 3"	3,200	■	308.92	265.64	265.64	217.77	■	217.77	188.43	188.43	■
14" x 2"	2,500	■	■	261.20	■	207.05	207.05	207.05	181.58	181.58	181.58
14" x 3"	2,500	456.21	456.21	428.30	428.30	■	297.02	297.02	■	■	■
16" x 2"	2,300	398.79	■	■	356.13	298.66	298.66	298.66	246.19	246.19	246.19
16" x 3"	2,300	552.99	552.99	491.54	491.54	405.83	■	405.83	334.71	334.71	334.71

* Do not require SMD 612 mounting plates. Bores from 1/2" to 1 1/4" available. Please specify bore size. All other SM 611 flapwheels must be used with SMD 612 Mounting Plates.



WSM617 great for stainless steel kitchen manufacturers, autobody paint removal. and refurbishing metal office furniture.

WSM 617

This useful and versatile flapwheel makes metal finishing easier. The WSM 617 has a solid center with a built-in 5/8"-11 threaded hole for use on most angle-grinders. With this type of flapwheel, the larger surface area of the face is used, making it a quicker way to apply finishing touches or a unique decorative finish to your metal workpiece.



Diameter x Width x Spindle	Maximum RPM	120 Grit	80 Grit	60 Grit	40 Grit
4 1/2" x 3/4" x 5/8" - 11"	13,300	\$22.90	\$22.90	\$21.61	\$21.61



SMD 612 Mounting Plates

REQUIRED! Top quality alignment for your SM 611 flapwheels. For repeated use with SM 611 and the Mac Mop. Specify arbor hole size. **Flanges for 4" Flapwheels thru 12" Flapwheels are Galvanized Steel. Flanges for 14" Flapwheels thru 16" Flapwheels are Aluminum Castings.**

Flapwheel Diameter	Diameter of Plates (Inches)	Standard Bore (Inches)	Maximum Bore (Inches)	Price Per Pair
4"	2 ³ / ₁₆ "	3 ¹ / ₈ "	3 ¹ / ₄ "	\$7.66
5 ¹ / ₂ "	2 ³ / ₁₆ "	3 ¹ / ₈ "	3 ¹ / ₄ "	7.66
† * 6 ¹ / ₂ "	3 ¹ / ₈ "	1 ¹ / ₂ "	1 ¹¹ / ₁₆ "	7.66
†† 10"	4 ³ / ₄ "	9 ¹ / ₁₆ "	2"	18.11
12"	6"	3 ¹ / ₄ "	2"	27.65
14"	8"	1"	3 ¹ / ₈ "	92.19
16"	9"	1"	3 ¹ / ₈ "	103.11

* Mac Mop mounting plate size.

† Mounting Plate for 6 1/2" NCW 600

†† Mounting Plate for 8" NCW 600



KM 613 Spindle Mounted Flapwheels

Superb for finish-sanding of small metal contoured parts, in and around radii or into holes.

Available Grits: 60, 80, 120, 180, 240 • Minimum Package: 1 Box of 10 per size and grit
Case price per each (100 or more per same size and grit)

Diameter x Width x Spindle	Max RPM	Price	Case Per Each Price
1" x 1/2" x 1/4"	30,000	\$5.69	\$4.84
1" x 1" x 1/4"	30,000	6.08	5.17
1 1/2" x 1/2" x 1/4"	25,000	6.46	5.49
1 1/2" x 1" x 1/4"	25,000	7.24	6.16
2" x 1/2" x 1/4"	25,000	7.54	6.41
2" x 3/4" x 1/4"	25,000	7.92	6.73
2" x 1" x 1/4"	25,000	8.52	7.24
2 1/2" x 1/2" x 1/4"	20,000	8.07	6.86
2 1/2" x 1" x 1/4"	20,000	9.17	7.80
2 1/2" x 2" x 1/4"	20,000	13.25	11.26
3" x 1/2" x 1/4"	12,000	8.63	7.34
3" x 3/4" x 1/4"	12,000	9.95	8.46
3" x 1" x 1/4"	12,000	10.68	9.08
3" x 2" x 1/4"	12,000	14.99	12.74

PRICE PER FLAPWHEEL



VERY IMPORTANT
NOT TO EXCEED
RECOMMENDED RPM!

Mac Mop

The very best tool for final finishing, polishing, and making decorative finishes on severe profiles.

Must be used with KLINGSPOR SMD 612 - 6 1/2" mounting plates.

PRICE PER MOP

Diameter x Width	Max RPM	Recommended RPM	180, 150 Grit	120, 100, 80 Grit
10" x 2"	3400	1700 - 2500	\$159.86	\$138.19
10" x 4"	3400	1700 - 2500	284.52	235.39



DON'T FORGET
MOUNTING PLATES



Spindle Mounted Mac Mops

The very best tool for final finishing, polishing, and making decorative finishes on severe profiles.

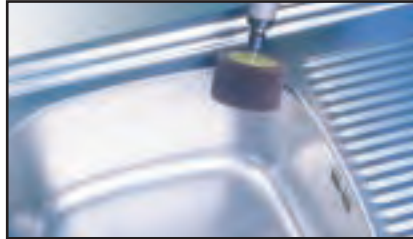
Diameter x Width	Max RPM	240, 180, 120, 80 Grit
7" x 1" x 1/4"	4200	\$40.00
7" x 2" x 1/4"	4200	45.72

PRICE PER MOP

NSF 600 Small Finishing Flapwheels

Non-woven abrasive wheels specifically for matte, satin and final finishing on metals.

Diameter x Width x Spindle	Maximum RPM	VERY FINE	MEDIUM
2 ³ / ₈ " x 2" x 1/4"	3,700	\$13.76	\$13.76
3 ¹ / ₈ " x 2" x 1/4"	3,700	17.13	16.41



NCS 600 Small Finishing Flapwheels

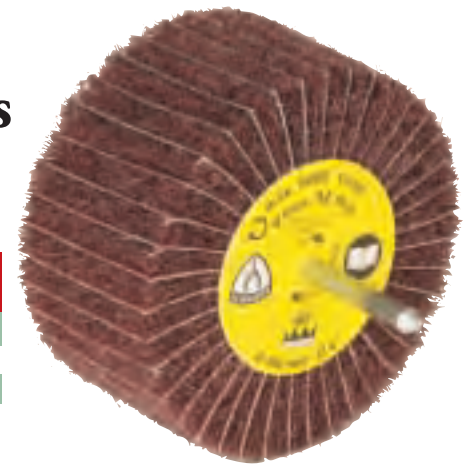
Superb for final finish-sanding of small metal flat or contoured parts, in and around radii or into holes. These flapwheels produce a beautiful "brush finish" on most metals.

SPINDLE MOUNTED

PRICE PER FLAPWHEEL

Diameter x Width x Spindle	Maximum RPM	240 S/C	150 A/O	100 A/O	60 A/O
2" x 1" x 1/4"	12,000	\$14.31	\$14.31	\$14.31	\$14.31
3" x 1 ³ / ₄ " x 1/4"	8,000	31.58	31.58	31.58	31.58
4" x 1 ³ / ₄ " x 1/4"	6,000	36.91	N/A	36.91	36.91

S/C = Silicon Carbide; A/O = Aluminum Oxide



NCW 600 Finishing Flapwheels

A very fine sanding form of flapwheel that conforms to contoured parts and puts a beautiful satin finish on most metals. Constructed of non-woven abrasive and flexible sandpaper

PLEASE NOTE: NCW 600 Finishing Flapwheels must be used with SMD 612 Mounting Plates on page 39.

PRICE PER FLAPWHEEL

Diameter x Width	Maximum RPM	180, 150, 100, 80 A/O
6 ¹ / ₂ " x 2"	3,700	\$60.07
8" x 2"	3,050	\$95.01



Observe appropriate safety regulations. Use eye, face, hearing, respiratory, hand and body protection when using abrasive products.



KLINGSPUR offers a host of specialty grinding, sanding, and finishing products to assist in the overall completion of your workpieces. These products are often a necessity to accomplish specific tasks whether for the sanding of contoured parts or the final-finishing sequences. The spectrum of specialty abrasives is a diverse group meant for work on a variety of different materials including all metals, wood, plastics, glass, rubber, and solid surface materials, just to name a few.



WIRE WHEELS & BRUSHES



POWER WHEELS



UNITIZED WHEELS



SANDING STARS



DIAMOND PADS



TAPES



CARTRIDGE ROLLS



MOUNTED POINTS



SANDING PADS



CONVOLUTE WHEELS



SPIRAL BANDS



CROSS PADS

Wire Brushes and Wheels

As a leader in the coated and bonded abrasive markets, it is only natural that KLINGSPOR develop and excel in another abrasive field. KLINGSPOR is pleased to be able to offer to you our high quality line of wire wheels and brushes. The uses for wire wheels and brushes are ever expanding and with this fact, KLINGSPOR knows that playing a role in this market is important.

The KLINGSPOR line embodies the main types of wire products with a focus on basic application needs. Included in the line are both carbon steel and stainless steel versions of knot wheels, crimped wheels, cup wheels, stringer bead wheels, and end brush wheels to name a few. With this assortment, the KLINGSPOR line satisfies most wire wheel requirements.



CRIMPED CUP WHEEL (CC)



AVAILABLE IN: CARBON STEEL		
KM6009	3 x 5/8-11, .014, trim 1/8" MAX RPM 14,000	\$11.27
KM6010	4 x 5/8-11, .020, trim 1/8" MAX RPM 9,000	\$17.23
KM6011	6 x 5/8-11, .014, trim 1/8" MAX RPM 6,000	\$24.38

CABLE TWIST KNOT WHEEL (CTKW)

AVAILABLE IN: CARBON STEEL (CS) AND STAINLESS STEEL (SS)

KM6041	4 x 5/8-11, .020, CS, Trim 1", F 3/8, 20 Knots, MAX RPM 20,000	\$20.51
KM6042	4 x 5/8-11, .020, SS, Trim 1", F 3/8, 20 Knots, MAX RPM 20,000	\$36.00



CRIMPED END BRUSH WHEEL (CEB)

AVAILABLE IN: CARBON STEEL

KM6015	3/4 x 1/4, .020, Trim 1/8" MAX RPM 18,000	\$7.14
KM6016	1 x 1/4, .020, Trim 1/8" MAX RPM 18,000	\$8.68
KM6018	3/4 x 1/4, .014, Trim 1/8" MAX RPM 20,000	\$13.82



STANDARD TWISTED KNOT WHEEL (STKW)

AVAILABLE IN: CARBON STEEL (CS) AND STAINLESS STEEL (SS)

KM6001	4 x 5/8-11, CS, .014 trim 1" MAX RPM 20,000	\$19.92
KM6002	4 x 5/8-11, SS, .014 trim 1" MAX RPM 20,000	\$37.12
KM6003	6 x 5/8-11, CS, .020 Trim 1 1/4" MAX RPM 9,000	\$27.72



TWISTED KNOT CUP WHEEL (TKC)



AVAILABLE IN: CARBON STEEL (CS) AND STAINLESS STEEL (SS)

KM6012	2 3/4 x 5/8-11, CS, .020 Trim 1 1/4", 18 Knots MAX RPM 12,500	\$18.61
KM6013	2 3/4 x 5/8-11, SS, .020 Trim 1 1/4", 18 Knots MAX RPM 12,500	\$27.81
KM6014	4 x 5/8-11, CS, .020 Trim 1 7/8", 18 Knots MAX RPM 9,000	\$26.67



STRINGER BEAD TWIST WHEEL (SBTW)

AVAILABLE IN: CARBON STEEL (CS) AND STAINLESS STEEL (SS)

KM6004	4 x 5/8-11, CS, .020 trim 7/8" MAX RPM 20,000	\$16.67
KM6005	4 x 5/8-11, SS, .020 trim 7/8" MAX RPM 20,000	\$28.04
KM6006	6 x 5/8-11, CS, .020 trim 1" MAX RPM 12,500	\$23.39
KM6007	6 x 5/8-11, SS, .020 trim 7/8" MAX RPM 12,500	\$34.92
KM6008	7 x 5/8-11, SS, .020 trim 7/8" MAX RPM 12,500	\$43.41

TWISTED KNOT END BRUSH (TKEB)

AVAILABLE IN: CARBON STEEL (CS) AND STAINLESS STEEL (SS)

KM6017	3/4 x 1/4, CS, .020, Trim 1/8", 9 Knots MAX RPM 20,000	\$13.82
KM6043	3/4 x 1/4, CS, .014, Trim 7/8", 9 Knots MAX RPM 20,000	\$13.79
KM6044	3/4 x 1/4, SS, .020, Trim 7/8", 9 Knots MAX RPM 20,000	\$16.94
KM6045	1 1/2 x 1/4, CS, .014, Trim 7/8", 9 Knots, MAX RPM 18,000	\$14.90
KM6046	1 1/2 x 1/4, SS, .020, Trim 7/8", 9 Knots, MAX RPM 18,000	\$28.86



STEM MOUNTED KNOT WHEEL (SMKW)

AVAILABLE IN: CARBON STEEL (CS) AND STAINLESS STEEL (SS)

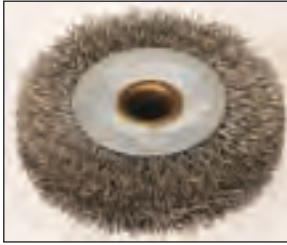
KM6034	3 x 1/4, CS, .014, 1/4 stem MAX RPM 25,000	\$22.54
KM6035	3 x 1/4, SS, .014, 1/4 stem MAX RPM 25,000	\$37.71



SMALL DIAMETER WHEEL (SDW)

AVAILABLE IN:
CARBON STEEL (CS)
AND STAINLESS STEEL (SS)

KM6036	3 x 1/2 - 3/8, 1/2 face, .006 SS, Trim 1"		
	MAX RPM 22,000	\$21.49	
KM6037	3 x 1/2 - 3/8, 5/8 face, .0118 CS, Trim 1"		
	MAX RPM 22,000	\$8.12	
KM6038	3 x 1/2 - 3/8, 5/8 face, .0118 SS, Trim 1"		
	MAX RPM 22,000	\$14.98	
KM6039	3 x 1/2 - 3/8, 5/8 face, .014 CS, Trim 1"		\$7.60
	MAX RPM 22,000		
KM6040	3 x 1/2 - 3/8, 5/8 face, .014 SS, Trim 1"		\$14.35
	MAX RPM 22,000		



NARROW FACE BRUSH WHEEL (NFBW)

AVAILABLE IN:
CARBON STEEL (CS)

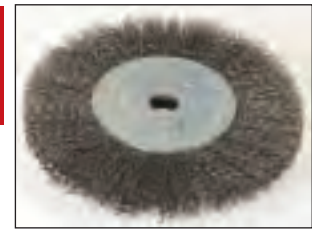
KM6030	6 x 5/8 - 1/2, .014, Trim 1 1/8"		
	MAX RPM 6,000	\$9.93	
KM6031	8 x 5/8, .014, Trim 1 3/4",		
	MAX RPM 4,500	\$24.64	



MEDIUM FACE BRUSH WHEEL (MFBW)

AVAILABLE IN:
CARBON STEEL (CS)

KM6032	6 x 5/8 - 1/2, .014, Trim 1 1/8"		\$32.82
	MAX RPM 6,000		
KM6033	8 x 5/8, .014, Trim 1 3/4"		\$47.04
	MAX RPM 4,500		



SCRATCH BRUSHES

CURVED HANDLE



14" x 7/8", 5 1/2", 3 x 19, Trim 1 1/2"
KM30157 (CS) \$3.69
KM30167 (SS) \$7.40

SMALL HANDLE BRUSH



Plastic Handle
7 1/2" x 1/2", 3 x 7, Trim 1/2"
KM30214 (SS) \$3.60
KM30270 (BRASS) \$3.60

Wood Handle (not shown)
7 1/2" x 1/2", 3 x 7, Trim 1/2"
KM30271 (SS) \$3.53

SHOE HANDLE

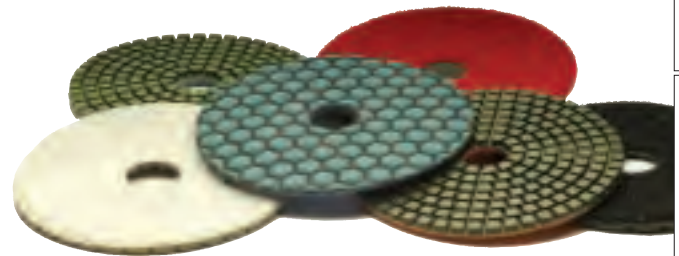


10" x 1 1/8", 5", 4 x 16, Trim 1 3/16"
KM30161 (CS) \$4.02
KM30168 (SS) \$8.20

Wet Or Dry Diamond Pads

These pads will be sold in singles and are available in a 4" wet pad, a 4" dry pad, a 4" white buff, and a 4" black buff. Both our wet and our dry pads are available in grits 50, 100, 200, 400, 800, 1500, and 3000. Paid trials are available at this time.

	GRIT	Price	Item#
4" Wet Pad	50	\$21.60	POLISHPADWET0050400
	100	21.60	POLISHPADWET0100400
	200	21.60	POLISHPADWET0200400
	400	21.60	POLISHPADWET0400400
	800	21.60	POLISHPADWET0800400
4" Wet Set	1500	21.60	POLISHPADWET1500400
	3000	21.60	POLISHPADWET3000400
4" Dry Pad	ALL	129.66	POLISHPADSET400
	50	27.64	KAIPOLISHPADDRY0050400
	100	27.64	KAIPOLISHPADDRY0100400
	200	27.64	KAIPOLISHPADDRY0200400
	400	27.64	KAIPOLISHPADDRY0400400
	800	27.64	KAIPOLISHPADDRY0800400
4" White Buff	1500	27.64	KAIPOLISHPADDRY1500400
	3000	27.64	KAIPOLISHPADDRY3000400
4" Black Buff		21.60	KAIBUFFPADBLACK400
Rigid Backing Pad		22.96	KAIPOLISHBKRPADRIG4
Rubber Backing Pad		20.88	KAIPOLISHBKRPADRUB4



For those of you unfamiliar with this type of pad, here is a brief overview. Polishing pads are a kind of diamond pad where the face is a working layer, which has straight or curved radiate slots and the back is hook & loop material with a soft nap. Its thickness is 2mm, 3mm or 4mm and it can be bent or distorted freely. It can process marble, ceramic, and other hard and fragile materials, as well as non-ferrous metals. They are most commonly used to polish stone, porcelain profiles, ceramic tile floors, all kinds of table-boards and stone sculptures.

Wet is for production • Dry is mostly for install
Wet pads can be used wet or dry

FLAP DISCS
BONDED
NON-WOVEN
QUICK CHANGE
BELTS
ROLLS
SHEETS
FLAPWHEELS
SPECIALTY
DISCS
SAFETY
POWER TOOLS
REFERENCE

Flexible Sanding Pads

These foam and sponge sanding pads are perfect for quick hand sanding of contoured or profiled parts.



ULTRAFLEX SANDING PADS The UltraFlex Sanding Pads are the premium foam pads on the market. These incorporate a dense foam structure and a full, even coating of either aluminum oxide or silicon carbide grains. This makes for an extremely long-lasting pad that is very flexible for finish-sanding of contoured parts and profiles. The pad measures 4 1/2" wide and 5 1/2" long.

Unit	320 Grit	220 Grit	180 Grit	120 Grit
10 Pack	\$14.02	\$14.02	\$14.02	\$14.02
Case 250	315.68	315.68	315.68	315.68
4500 Pallet	5,114.11	5,114.11	5,114.11	5,114.11

* Pads are available in ALUMINUM OXIDE in 120, 180, 220, and 320 grit. Pads are available in SILICON CARBIDE in 120, 180, 220, and 320 grit. Please specify when ordering.

SANDING SPONGES Our Sanding Sponge is meant for the sanding of slight contours and flat parts. It measures approximately 4" in length, 3" in width and 1/4" thick.

Unit	220 Grit	180 Grit	120 Grit	100 Grit	80 Grit	60 Grit
10 Pack	\$14.02	\$14.02	\$14.02	\$14.02	\$14.02	\$14.02
Case 250	315.68	315.68	315.68	315.68	315.68	315.68
4500 Pallet	5,114.11	5,114.11	5,114.11	5,114.11	5,114.11	5,114.11

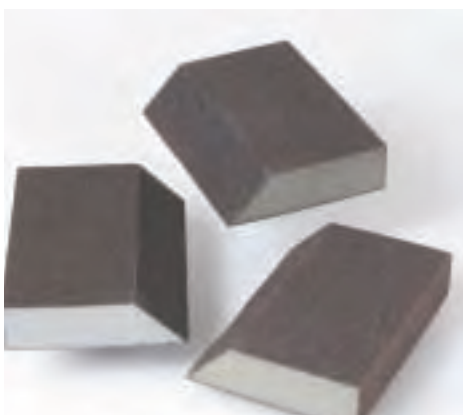
MIX AND MATCH GRITS TO REACH PALLET QUANTITIES CASE MINIMUM PER GRIT.



* Sponges are available in Aluminum Oxide only.

FOAM SANDING PADS KLINGSPOR Foam Sanding Sponges are now produced with the latest technological advances. These general purpose foam pads are solvent free and outperform other similar pads on the market. The Foam Sanding Pad can be used on severely profiled parts, because it is more flexible and much thinner. The foam pad measures 5" long, 4" wide and 1/2" thick.

Unit	220 Grit	180 Grit	120 Grit	100 Grit	80 Grit	60 Grit
10 Pack	\$14.02	\$14.02	\$14.02	\$14.02	\$14.02	\$14.02
Case 250	315.68	315.68	315.68	315.68	315.68	315.68
4500 Pallet	5,114.11	5,114.11	5,114.11	5,114.11	5,114.11	5,114.11



Angle Flexible Sanding Pads

Unit	220 Grit	180 Grit	120 Grit
10 Pack	\$17.76	\$17.76	\$17.76
Case 100	151.77	151.77	151.77

* Sponges are available in Aluminum Oxide only.



Observe appropriate safety regulations. Use eye, face, hearing, respiratory, hand and body protection when using abrasive products.

Power Wheel

These wheels will replace your wire wheels for removing surface contaminants while leaving a fine finish. Constructed of large nylon filament with coarse silicon carbide grain, this open structure provides aggressive removal and blending characteristics without loading. Applications include: removal of paints and other surface coatings, cleaning of weld discoloration, blending, and removing corrosion, rust and scale.



All Power Wheels have a 1/2" center hole. Mandrels both have a 1/2" insertion end and either a 1/4" or 5/16" shank.

Size & Description	Recommended RPM	Maximum RPM	Price Per Wheel
4" dia. with 1/2" arbor	3,700 - 4,200	7,600	\$10.40
6" dia. with 1/2" arbor	2,500 - 3,000	5,000	17.86

The KLINGSPOR reusable arbor system is unique in that it comes with a series of "washers" which allows for optimum support as the wheel wears away.

Reusable arbor - 5/16"	\$10.41
Reusable arbor - 1/4"	\$10.41



Premium Grade Masking Tape

This Premium Masking Tape adheres to and removes cleanly from a variety of surfaces due to its high grade rubber adhesive. This enables trouble-free removal, saving time and clean up costs. A specially treated paper makes this standard tape very conformable and provides straight paint lines with clean, sharp edges. It will also strip easily from most surfaces without leaving a residue.

Item #	Size	Price - Roll	Price - Sleeve	Price - Case
MTAPE4309-075	3/4" X 55 yds	\$3.69	\$55.61 (\$3.48 per roll @16 rolls)	\$304.03 (\$3.17 per roll @96 rolls)
MTAPE4309-100	1" X 55 yds	\$4.85	\$36.79 (\$4.60 per roll @8 rolls)	\$202.47 (\$4.22 per roll @48 rolls)
MTAPE4309-150	1 1/2" X 55 yds	\$7.10	\$55.27 (\$6.91 per roll @8 rolls)	\$297.48 (\$6.20 per roll @48 rolls)
MTAPE4309-200	2" X 55 yds	\$9.52	\$53.72 (\$8.96 per roll @6 rolls)	\$290.12 (\$8.06 per roll @36 rolls)

PG 27 Tape

MASKING TAPES SHOULD BE STORED IN A CLIMATE CONTROLLED AREA.

This premium masking tape is considered as one of the best on the market. PG27 is temperature resistant up to 300° F for 30 minutes and provides superior holding characteristics. Its increased elongation insures conformability when cornering and bending. Intertape uses only top quality adhesive that consistently allows for clean removal with no leftover glue residue.

Item #	Size	Price - Roll	Price - Sleeve	Price - Case
MTAPE-PG27-075	3/4" x 60 yds	\$4.16	\$44.87 / 12 rolls (\$3.74 per roll)	\$159.46 / 48 rolls (\$3.32 per roll)
MTAPE-PG27-150	1 1/2" x 60 yds	\$7.58	\$40.96 / 6 rolls (\$6.83 per roll)	\$145.64 / 24 rolls (\$6.07 per roll)
MTAPE-PG27-200	2" x 60 yds	\$10.62	\$57.37 / 6 rolls (\$9.57 per roll)	\$204.77 / 24 rolls (\$8.54 per roll)



Heavy Duty Graphite Rolls

Heavy duty graphite-coated canvas will extend the life of your belts by reducing heat and friction.

Price Per Roll

Size	Price
3" x 10 yards	\$55.15
4" x 10 yards	85.77
6" x 10 yards	110.31
9" x 10 yards	165.45
12" x 10 yards	220.60



Graphite Sticks

Graphite sticks are used to lubricate belt backings used in mold sanding.

Graphite Sticks \$12.26 each



Grease Sticks

Grease sticks are used to lubricate the face of belts & discs in metalworking applications to reduce loading and to improve finish.

Grease Sticks \$12.66 each



Cleaning Sticks

Cleaning Sticks 8" x 2" x 2" \$18.93 each



Wide Belt Cleaning Pad

15" x 20" x 1 1/8" \$112.00 each

FLAP DISCS
BONDED
NON-WOVEN
QUICK CHANGE
BELTS
ROLLS
SHEETS
FLAPWHEELS
SPECIALTY
DISCS
SAFETY
POWERTOOLS
REFERENCE

FLAP DISCS
 BONDED
 NON-WOVEN
 QUICK CHANGE
 BELTS
 ROLLS
 SHEETS
 FLAPWHEELS
 SPECIALTY
 DISCS
 SAFETY
 POWERTOOLS
 REFERENCE

Convolute Wheels

KLINGSPOR Convolute Wheels feature dense, non-woven construction. They are smooth running, non-metallic, soft and smear-resistant. They create less operator fatigue, no contamination of the workpiece, reduce gouging and provide a faster stock removal rate.

Applications: Used for blending mill marks, machine mismatches, prior sanding scratch patterns, reducing uneven edges between surfaces and surface roughness prior to welding, for removing medium burrs, light flashing, parting lines, light adhesive overflow, smoothing radii on stamped metal parts, polishing welds, blending and polishing handling marks.

Market Usage: Chemical plants, metal fabricators, appliance manufacturers, machine builders, engine builders, welding shops, aerospace, manufacturing, maintenance, mold & die shops, welding shops, oil field machinery.

Required Tool/Equipment: Automated equipment, straight shaft stationary tools, straight shaft portable tools and feed thru machines.



ITEM#	MAX. RPM	SIZE	GRIT	DENSITY/DESIGNATION	LIST PRICE
CFV60001	6,000	6" x 1/2" x 1"	Fine SILICON CARBIDE	Hard Deburring 9SF	\$55.38
CFV60004	6,000	6" x 1/2" x 1"	Fine SILICON CARBIDE	Medium Deburring 8SF	55.38
CFV60002	6,000	6" x 1" x 1"	Fine SILICON CARBIDE	Medium Deburring 9SF	77.51
CFV60003	6,000	6" x 1" x 1"	Fine SILICON CARBIDE	Hard Deburring 9SF	77.51
CFV60005	6,000	6" x 1" x 1"	Medium SILICON CARBIDE	Medium Deburring 8SM	77.51
CFV80003	4,500	8" x 1/2" x 3"	Fine SILICON CARBIDE	Medium Deburring 8SF	65.89
CFV80001	4,500	8" x 1" x 3"	Fine SILICON CARBIDE	Medium Deburring 8SF	96.94
CFV80002	4,500	8" x 1" x 3"	Fine SILICON CARBIDE	Hard Deburring 9SF	96.94
CFV80006	4,500	8" x 1" x 3"	Medium SILICON CARBIDE	Medium Deburring 8SM	96.94
CFV80007	4,500	8" x 2" x 3"	Medium SILICON CARBIDE	Medium Deburring 8SM	169.05
CFV80008	4,500	8" x 2" x 3"	Medium SILICON CARBIDE	Medium Deburring 9SF	183.08
CFV12001	3,000	12" x 1" x 5"	Fine SILICON CARBIDE	Hard Deburring 9SF	139.42
CFV12003	3,000	12" x 1" x 5"	Fine SILICON CARBIDE	Medium Deburring 8SF	139.42
CFV12002	3,000	12" x 2" x 5"	Fine SILICON CARBIDE	Hard Deburring 9SF	247.82

Convolute Competitive Comparisons

KLINGSPOR	3M	Norton
Deburring Hard S/C Fine	EXL Deburring 9SF	Series 1000 - 1 - 9SF
Deburring Medium S/C Fine	EXL Deburring 8SF	Series 1000 - 1 - 8SF
Deburring Medium S/C Medium	EXL Deburring 8SM	Series 1000 - 1 - 8SM

IMPORTANT: Convolute wheels must be run in the direction of the arrow.

Mounting Bushings

Description	Item#	Price	Description	Item#	Price
6" Wheel Bushing 1" to 3/8"	CFVB001	\$1.42	8" Wheel Bushing 3" to 1"	CFVB004	\$69.32
6" Wheel Bushing 1" to 1/2"	CFVB002	1.42	8" Wheel Bushing 3" to 1 1/4"	CFVB005	69.32
6" Wheel Bushing 1" to 3/4"	CFVB003	1.42	12" Wheel Bushing 5" to 1"	CFVB006	98.39
6" Wheel Bushing 1" to 5/8"	CFVB008	1.42	12" Wheel Bushing 5" to 1 1/4"	CFVB007	98.39

Type 27 Depressed Center Unitized Discs

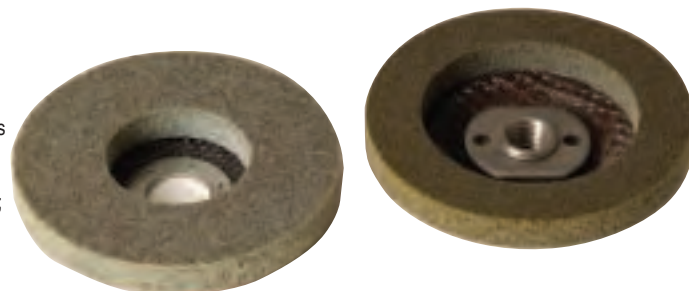
These unique depressed center discs offer a new grinding and finishing solution for the metal working markets. They are manufactured using the popular and highly durable unitized material attached to a fibre-reinforced backing plate. This device offers stock removal while leaving a pleasing final finish. Some applications for fibre discs and/or flap discs may be replaced with the Type 27 Unitized Discs. Applications include: deburring, edge breaking, blending, cleaning, polishing, and final finishing.

Unitized discs great for polishing brass
Excellent for food grade stainless steel

Unitized discs excellent for aluminum
sign mfrs, blending weld marks.

Size	Series 632	Series 811	Series 821
4 1/2" x 7/8"	\$21.79	\$26.52	\$25.21

TYPE	DENSITY	GRADE	GRAIN	APPLICATION
Series 632	Medium	Fine	S/C	Use light pressure for fine finishing and polishing; is highly conformable; provides clean bright stainless finishes; blends tool marks and removes slight surface imperfections.
Series 811	Hard	Coarse	A/O	Highest stock removal and edge-breaking capability; most aggressive for deburring.
Series 821	Hard	Medium	A/O	Provides high stock removal while maintaining disc life and productivity; very durable on an edge.



SPECIALTY

Cloth Spiral Bands

Perfect for edge sanding or in and around holes on metals or wood. May be used on spindle sanders, drill presses or hand held tools. Made from our heavy cloth aluminum oxide material.



Observe appropriate safety regulations. Use eye, face, hearing, respiratory, hand and body protection when using abrasive products.

Spiral Bands for Oscillating Spindle Sanders PRICE PER PACK

Diameter x Width	Box Qty	150 Grit	100 Grit	60 Grit
1/2" x 4 1/2"	10	\$16.44	\$16.44	\$16.60
3/4" x 4 1/2"	10	17.34	17.34	17.67
1" x 4 1/2"	10	18.11	18.11	19.16
1 1/2" x 4 1/2"	10	19.44	19.44	19.91
2" x 4 1/2"	10	26.49	26.49	27.66
3" x 4 1/2"	10	30.07	30.07	31.56
1/2" x 9"	10	34.87	34.87	35.17
3/4" x 9"	10	37.10	37.10	37.86
1" x 9"	10	38.90	38.90	40.54
1 1/2" x 9"	10	41.59	41.59	43.06
2" x 9"	10	45.78	45.78	48.16
3" x 9"	10	52.67	52.67	55.66



PRICE PER BOX

Diameter	Width	Box Quantity	150 Grit	100 Grit	60 Grit
1/2"	1/2"	25	\$13.26	\$13.26	\$13.26
	1"	25	13.63	13.63	13.63
	1 1/2"	25	■	14.77	14.77
3/4"	2"	25	19.31	19.31	19.31
	1"	25	13.63	13.63	14.39
	1 1/2"	25	■	■	15.91
1"	3"	25	■	31.95	■
	1"	25	14.39	14.39	14.77
	1 1/2"	25	16.29	16.29	16.66
1 1/2"	2"	25	22.34	22.34	23.48
	3"	25	32.95	32.95	34.09
	1"	25	14.77	14.77	15.53
2"	1 1/2"	25	16.29	16.29	17.43
	2"	25	23.85	23.85	24.34
	2 1/2"	25	■	■	29.92
3"	3"	25	35.22	35.22	36.35
	1"	25	16.29	16.29	16.66
	1 1/2"	25	19.31	19.31	20.83
2"	2"	25	26.11	26.11	27.27
	3"	25	39.01	39.01	40.90

PLEASE NOTE: RUBBER DRUMS AVAILABLE - SEE PAGE 48

MAX RPM'S FOR SLEEVE'S CORRESPOND TO MAX RPM'S OF RUBBER DRUMS. LOCATED ON PAGE 48

FLAP DISCS
BONDED
NON-WOVEN
QUICK CHANGE
BELTS
ROLLS
SHEETS
FLAPWHEELS
SPECIALTY
DISCS
SAFETY
POWERTOOLS
REFERENCE

Rubber Drums

For use with cloth spiral bands.

Size	MAXIMUM RPM	PRICE PER DRUM
1/2" x 1/2" x 1/4"	30,000	\$6.25
1/2" x 1" x 1/4"	15,000	6.25
3/4" x 1" x 1/4"	13,000	6.25
3/4" x 1 1/2" x 1/4"	10,000	7.99
3/4" x 2" x 1/4"	9,000	9.08
1" x 1" x 1/4"	18,000	6.47
1" x 1 1/2" x 1/4"	10,000	7.99
1" x 2" x 1/4"	8,000	9.08
1" x 3" x 1/4"	6,000	11.79
1 1/2" x 1" x 1/4"	14,000	8.21
1 1/2" x 1 1/2" x 1/4"	10,000	9.08
1 1/2" x 2" x 1/4"	7,000	13.53
2" x 1" x 1/4"	11,000	9.08
2" x 1 1/2" x 1/4"	8,000	13.55
2" x 2" x 1/4"	6,000	18.05
2" x 3" x 1/4"	4,000	20.13



Cross Pads

Size	PRICE PER EACH
2" x 2"	\$2.16
3 1/2" x 3 1/2"	2.78

Available Grits: 80, 120, 180

CPMANDREL-1/4" x 8-32\$6.21 CPMANDREL-1/4"-20\$9.08



Sanding Stars

KLINGSPOR Sanding Stars are the ideal tools for the sanding of highly contoured or profiled wood or metal parts. These ingenious tools are made from our very flexible cloth-backed material which makes them perfect for finish sanding. The KLINGSPOR Sanding Stars are unique also in that the material they are made with contains a dry lubricant along with the premium aluminum oxide grains. This helps reduce loading of wood particles and improves the overall finish on metals.

Available with either a built-in 1/4" mandrel or a 1/2" hole with grommet for mounting. Our Sanding Star with the 1/4" mandrel is almost an 1" thick and is filled with 40 flaps of high quality material with just the right amount of spacers inserted to make this the perfect finishing device for use in virtually any tool with a 1/4" chuck. Our grommetted Sanding Star is not as thick containing 10 flaps. This design makes it perfect for stacking multiple Sanding Stars to achieve the desired width and finish.



SANDING STARS ARE GREAT FOR INTRICATE DEBURRING IN MACHINE SHOPS.



MAXIMUM RPM 4" = 3200

4" DIAMETER

Grit	Price	Price
80 Grit	1/4" shank \$14.21	1/2" hole/no shank \$5.33
100 Grit	1/4" shank 14.21	1/2" hole/no shank 5.33
120 Grit	1/4" shank 14.21	1/2" hole/no shank 5.33
150 Grit	1/4" shank 14.21	1/2" hole/no shank 5.33
180 Grit	1/4" shank 14.21	1/2" hole/no shank 5.33
220 Grit	1/4" shank 14.21	1/2" hole/no shank 5.33

Cartridge Rolls

PRICE PER 100



Cartridge Rolls of 1" Length3/4" Pilot Length
 Cartridge Rolls of 1-1/2" Length1" Pilot Length
 Cartridge Rolls of 2" Length1 1/2" Pilot Length

Item #	Size	Max RPM	Grit	Mandrel #	Description	Price
CR703732	3/8" x 1 1/2" x 1/8"	25,000	60	2	Straight A/O	\$52.07
CR705036	3/8" x 1 1/2" x 1/8"	25,000	80	2	Straight A/O	53.68
CR707336	3/8" x 1 1/2" x 1/8"	25,000	120	2	Straight A/O	53.68
CR711147	3/8" x 1 1/2" x 1/8"	25,000	180	2	Straight A/O	56.98
CR706313	1/2" x 1" x 1/8"	25,000	60	1	Straight A/O	47.18
CR707617	1/2" x 1" x 1/8"	25,000	80	1	Straight A/O	48.84
CR711471	1/2" x 1" x 1/8"	25,000	120	1	Straight A/O	50.44
CR710652	1/2" x 1" x 1/8"	25,000	240	1	Straight A/O	52.07
CR707947	1/2" x 1 1/2" x 1/8"	25,000	40	2	Straight A/O	66.74
CR709187	1/2" x 1 1/2" x 1/8"	25,000	60	2	Straight A/O	65.09
CR710479	1/2" x 1 1/2" x 1/8"	25,000	80	2	Straight A/O	66.74
CR709813	1/2" x 1 1/2" x 1/8"	25,000	120	2	Straight A/O	66.74
CR700624	1/2" x 1 1/2" x 1/8"	25,000	180	2	Straight A/O	71.61
CR704494	1/2" x 1 1/2" x 1/8"	25,000	240	2	Straight A/O	73.23
CR707308	1/2" x 2" x 1/8"	25,000	60	3	Straight A/O	79.74
CR708564	1/2" x 2" x 1/8"	25,000	80	3	Straight A/O	81.37
CR707712	1/2" x 2" x 1/8"	25,000	120	3	Straight A/O	83.01
CR714235	3/4" x 1 1/2" x 1/8"	25,000	60	2	Straight A/O	110.67
CR713444	3/4" x 1 1/2" x 1/8"	25,000	80	2	Straight A/O	110.67
CR713317	3/4" x 1 1/2" x 1/4"	25,000	60	4	Straight A/O	110.67
CR713081	3/4" x 1 1/2" x 1/4"	25,000	80	4	Straight A/O	112.29
CR713077	3/4" x 1 1/2" x 1/4"	25,000	120	4	Straight A/O	115.55
CR713679	3/4" x 2" x 1/8"	25,000	100	3	Straight A/O	153.00
CR715682	3/4" x 2" x 1/8"	25,000	120	3	Straight A/O	153.00
CR707096	3/8" x 1" x 1/8"	25,000	60	1	Full Taper A/O	81.37
CR708357	3/8" x 1" x 1/8"	25,000	80	1	Full Taper A/O	84.60
CR702229	3/8" x 1" x 1/8"	25,000	120	1	Full Taper A/O	86.26
CR706036	3/8" x 1" x 1/8"	25,000	180	1	Full Taper A/O	86.26
CR710094	3/8" x 1 1/2" x 1/8"	25,000	50	2	Full Taper A/O	89.52
CR705509	3/8" x 1 1/2" x 1/8"	25,000	80	2	Full Taper A/O	89.52
CR706968	3/8" x 1 1/2" x 1/8"	25,000	120	2	Full Taper A/O	89.52
CR712772	1/2" x 1" x 1/8"	25,000	60	1	Full Taper A/O	86.26
CR700973	1/2" x 1" x 1/8"	25,000	80	1	Full Taper A/O	89.52
CR710725	1/2" x 1 1/2" x 1/8"	25,000	36	2	Full Taper A/O	99.28
CR709653	1/2" x 1 1/2" x 1/8"	25,000	60	2	Full Taper A/O	94.40
CR710928	1/2" x 1 1/2" x 1/8"	25,000	80	2	Full Taper A/O	96.02
CR700939	1/2" x 1 1/2" x 1/8"	25,000	120	2	Full Taper A/O	96.02
CR704817	1/2" x 1 1/2" x 1/8"	25,000	180	2	Full Taper A/O	99.28
CR700667	1/2" x 2" x 1/8"	25,000	60	3	Full Taper A/O	100.92
CR701974	1/2" x 2" x 1/8"	25,000	80	3	Full Taper A/O	104.18
CR702233	1/2" x 2" x 1/8"	25,000	120	3	Full Taper A/O	105.80



Mandrels

PRICE PER MANDREL

MANDREL#	ITEM#	PILOT	PILOT LENGTH	SHANK	SHANK LENGTH	OVERALL LENGTH	LIST PRICE
1	CRMANDREL700717	1/8"	3/4"	1/4"	1 1/4"	2 1/2"	\$3.29
2	CRMANDREL710190	1/8"	1"	1/4"	1 1/4"	2 3/4"	3.29
3	CRMANDREL708875	1/8"	1 1/2"	1/4"	1 1/4"	3 1/4"	3.29
4	CRMANDREL712584	1/4"	1"	1/4"	1 1/4"	3"	3.29



FLAP DISCS
 BONDED
 NON-WOVEN
 QUICK CHANGE
 BELTS
 ROLLS
 SHEETS
 FLAPWHEELS
SPECIALTY
 DISCS
 SAFETY
 POWER TOOLS
 REFERENCE

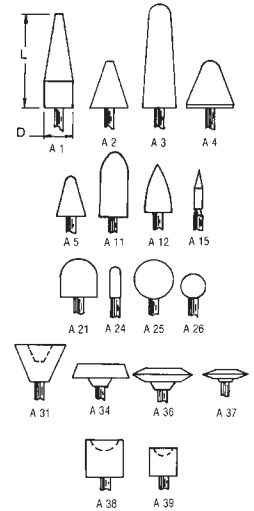
Mounted Points

Klingspor's Mounted Points have been developed for safe, high performance use. Quality is consistently excellent, as you would expect products with the Klingspor name. Over 100 different shapes and a variety of sizes, bonds, grits, etc. are available to suit virtually any metal grinding need.



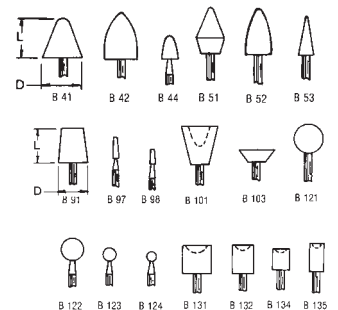
Group "A" Special Shapes - 1/4" Shanks

Shape	Diameter x Length	Max RPM	Red	Blue	Price Per Pack of 10
A1	3/4" x 2 1/2"	19,800	60	60	\$55.14
A2	1" x 1 1/4"	38,200	60	60	33.72
A3	1" x 2 3/4"	16,100	60	60	59.80
A3	1" x 2 3/4"	16,100	36	36	59.80
A4	1 1/4" x 1 1/4"	30,560	60	60	31.87
A5	3/4" x 1 1/8"	45,000	60	60	31.87
A11	7/8" x 2"	19,860	60	60	40.61
A11	7/8" x 2"	19,860	36	36	40.61
A12	1 1/16" x 1 1/4"	48,000	60	60	37.79
A14	1 1/16" x 7/8"	55,560	60	60	22.91
A15	1/4" x 1 1/16"	72,750	60	60	30.76
A21	1" x 1"	34,500	60	60	26.08
A24	1/4" x 3/4"	76,500	60	60	22.00
A25	1" x 1"	35,620	60	60	26.08
A26	5/8" x 5/8"	61,120	60	60	23.29
A31	1 3/8" x 1"	27,780	60	60	31.87
A32	1" x 5/8"	38,000	60	60	22.91
A34	1 1/2" x 3/8"	25,470	60	60	27.92
A36	1 5/8" x 3/8"	23,520	60	60	31.87
A37	1 1/4" x 1/4"	30,560	60	60	23.83
A38	1" x 1"	34,500	60	60	22.00
A39	3/4" x 3/4"	47,250	60	60	18.05

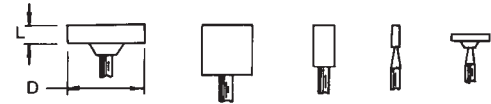


Group "B" Special Shapes- 1/8" Shanks

Shape	Diameter x Length	Max RPM	Red	Blue	Price Per Pack of 10
B41	5/8" x 5/8"	33,750	60	60	\$23.29
B42	1/2" x 3/4"	33,750	60	60	22.00
B44	7/32" x 3/8"	68,400	60	60	20.32
B44	7/32" x 3/8"	68,400	90	90	20.32
B45	3/16" x 5/16"	104,250	90	90	18.60
B51	7/16" x 3/4"	45,370	60	60	22.00
B52	3/8" x 3/4"	45,370	60	60	22.00
B53	1/4" x 5/8"	60,000	60	60	22.00
B91	1/2" x 5/8"	34,500	60	60	18.05
B96	1/8" x 1/4"	105,000	90	90	17.36
B97	1/8" x 3/8"	105,000	90	90	20.32
B97	1/8" x 3/8"	105,000	120	120	20.32
B98	3/32" x 1/4"	105,000	90	90	23.29
B101	5/8" x 1 1/16"	33,750	60	60	22.00
B103	5/8" x 3/16"	61,120	60	60	20.32
B121	1/2" x 1/2"	45,370	60	60	20.32
B122	3/8" x 3/8"	61,650	60	60	18.05
B123	3/16" x 3/16"	104,250	90	90	18.05
B124	1/8" x 1/8"	105,000	90	90	16.22
B131	1/2" x 1/2"	34,500	60	60	16.22
B132	3/8" x 1/2"	45,370	60	60	16.22
B134	5/16" x 3/8"	61,650	60	60	16.22
B135	1/4" x 1/2"	60,000	60	60	16.22



Group "W" Plain Shapes



Shape	Diameter x Length	Shank Size	Max RPM	Red	Blue	Price Per Pack of 10
W142	3/32" x 1/4"	1/8"	105,000	90	90	\$14.52
W142	3/32" x 1/4"	1/8"	105,000	120	120	14.52
W144	1/8" x 1/4"	1/8"	105,000	60	60	14.52
W145	1/8" x 3/8"	1/8"	105,000	60	60	16.22
W146	1/8" x 1/2"	1/8"	105,000	60	60	16.22
W152	3/16" x 1/4"	1/8"	105,000	60	60	14.52
W153	3/16" x 3/8"	1/8"	80,850	60	60	16.22
W154	3/16" x 1/2"	1/8"	70,500	60	60	16.22
W160	1/4" x 1/4"	1/8"	81,370	60	60	14.52
W162	1/4" x 3/8"	1/8"	68,400	60	60	16.22
W163	1/4" x 1/2"	1/8"	60,000	60	60	16.22
W164	1/4" x 3/4"	1/8"	45,900	60	60	16.79
W175	3/8" x 3/8"	1/8"	54,000	60	60	16.22
W176	3/8" x 1/2"	1/8"	45,370	60	60	16.22
W178	3/8" x 1"	1/8"	26,250	60	60	18.05
W179	3/8" x 1 1/4"	1/4"	45,750+	60	60	23.29
W185	1/2" x 1/2"	1/8"	34,500	60	60	16.22
W186	1/2" x 3/4"	1/8"	26,250	60	60	16.79
W187	1/2" x 1"	1/8"	20,620	60	60	18.05
W188	1/2" x 1 1/2"	1/4"	30,370+	60	60	27.92
W189	1/2" x 2"	1/4"	24,000+	60	60	34.82
W200	3/4" x 1/8"	1/8"	50,930	60	60	16.22
W204	3/4" x 3/4"	1/4"	18,900+	60	60	18.05
W205	3/4" x 1"	1/4"	34,900+	60	60	20.32
W206	3/4" x 1 1/4"	1/4"	28,720	60	60	22.91
W208	3/4" x 2"	1/4"	18,750+	60	60	36.51
W210	7/8" x 1/16"	1/8"	43,650	120	120	15.66
W215	1" x 1/8"	1/8"	38,200	60	60	16.79
W218	1" x 1/2"	1/4"	38,200+	60	60	18.05
W219	1" x 3/4"	1/4"	35,100+	60	60	20.32
W220	1" x 1"	1/4"	25,500+	60	60	22.00
W221	1" x 1 1/2"	1/4"	19,120+	60	60	30.76
W222	1" x 2"	1/4"	15,900+	60	60	37.79
W225	1 1/4" x 1/4"	1/4"	30,560+	60	60	20.32
W235	1 1/2" x 1/4"	1/4"	25,470+	60	60	22.00
W236	1 1/2" x 1/2"	1/4"	25,470+	60	60	23.29
W242	2" x 1"	1/4"	19,100+	60	60	34.82

Red General Purpose Mounted Points - These vitrified wheels are made with a clay bond along with premium white ALUMINUM OXIDE. They are best suited for grinding hardened tool steels which require a softer cutting wheel and will also effectively grind other materials such as hardened steels, glass, rubber, some stainless steels, wood, aluminum(hard), carbon steels and plastics.

Blue General Purpose Mounted Points - Also vitrified wheels, the blue mounted points are made with a porcelain bond along with regular ALUMINUM OXIDE grain. They are best suited for grinding low carbon steels or pre-hardened tool steels which require a tougher bond strength. These wheels will also effectively grind in heavier duty applications such as foundry work on castings, weld grinding on ferrous metals, hard brass and hard bronze.

Safety and Use of Mounted Wheels - Mounted wheels should be used with all the safety precautions recommended for grinding wheels. Each wheel should be inspected before use to make sure that the wheel is not damaged or the mandrel is not bent. Safe operating speeds are determined by shape and size, diameter of the mandrel and overhang (distance from end of support to base of wheel).

- DO NOT EXCEED THE SPEED INDICATED.
- DO NOT USE EXCESSIVE WORK PRESSURE.
- DO NOT OPERATE A MOUNTED WHEEL WHICH IS NOT CAREFULLY MOUNTED AND RUNNING TRUE.
- USE FACE PROTECTION AT ALL TIMES.

It is good practice, when starting hand grinders, to hold the grinder pointed downward and away from the operator until full operating speed is attained. If excessive vibration is felt, stop the grinder at once.

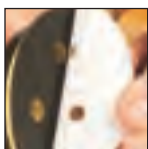


FLAP DISCS
BONDED
NON-WOVEN
QUICK CHANGE
BELTS
ROLLS
SHEETS
FLAPWHEELS
SPECIALTY
DISCS
SAFETY
POWERTOOLS
REFERENCE



ABRASIVE DISCS

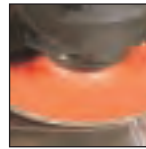
Disc sanding is at its height of popularity, and rightly so. KLINGSPOR abrasive discs have a range of usage that covers the full spectrum of manufacturing and/or job shop applications. With one of the country's most revered disc sanding programs, you'll find that KLINGSPOR has the perfect product for your need. Operations working with wood, metal, glass, solid surface materials, plastics, rubber, fiberglass and autobody repair will all benefit from our continually growing list of materials.



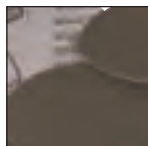
KLING-ON® DISCS



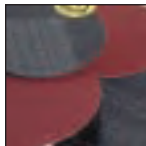
PSA DISCS ON A ROLL



FIBRE DISCS



PLAIN DISCS



PSA DISCS



new
FUSION FOAM

Heavyweight Plain Paper Discs - Non PSA

HEAVYWEIGHT PLAIN PAPER DISC AVAILABLE MATERIALS

PS 20 A/O F wt Paper *ACT* PS 22 A/O E wt Paper
 PS 24 A/O Open Coat F wt Paper PS 29 A/O Open Coat F Wt Paper *ACT*

Diameter	Box Quantity	100 Grit & Finer	80 Grit	60 Grit	50 Grit	40 Grit
4"	50	\$19.77	\$21.27	\$22.73	\$24.93	\$27.85
5"	50	27.11	30.04	32.99	36.66	40.33
6"	50	37.38	40.33	44.71	50.58	55.70
7"	50	55.70	60.12	66.73	74.03	81.36
8"	50	68.19	73.31	82.10	91.63	101.16
9"	50	88.68	95.30	107.05	118.01	130.48
10"	50	109.95	118.01	131.96	146.60	161.26
12"	50	161.26	174.46	194.23	214.77	237.49

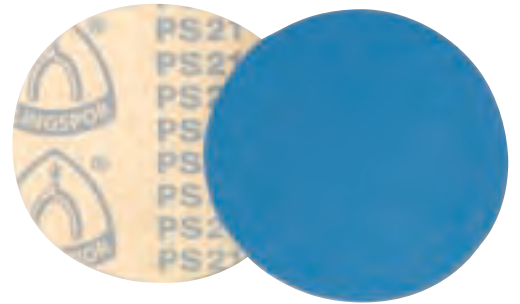
For intermediate sizes use next higher list price. Call for availability of other sizes. PRICE PER BOX



PS 21 Plain Paper Discs - Non PSA

Diameter	Box Quantity	100 Grit & Finer	80 Grit	60 Grit	40 Grit
4"	50	\$23.75	\$25.51	\$27.28	\$33.43
5"	50	32.56	36.06	39.60	48.37
6"	50	44.88	48.37	53.66	66.85
7"	50	66.85	72.12	80.06	97.64
8"	50	81.81	87.96	98.53	121.38
9"	50	106.44	114.36	128.43	156.57
10"	50	131.94	141.63	158.33	193.51
12"	50	193.51	209.35	233.06	285.00

For intermediate sizes use next higher list price. Call for availability of other sizes. PRICE PER BOX



PLAIN CLOTH DISC AVAILABLE MATERIALS

LS 309 A/O J/JF wt Cloth
 CS 310 A/O X wt Cloth
 CS 311 A/O Open Coat YX wt Cloth
 CS 321* S/C Waterproof X wt Cloth *ACT*
 * Add 5% to price shown
 CS 411** AZ X/YX/YY wt Cloth
 ** 24-36 Grit - Add 47% to price shown
 ** 40-60 Grit - Add 39% to price shown
 ** 80 Grit - Add 33% to price shown
 ** 120 Grit - Add 33% to price shown



Plain Cloth Discs - Non PSA

PRICE PER BOX

Diameter	Box Quantity	100 Grit & Finer	80 Grit	60 Grit	50 Grit	40 Grit	36 Grit	24 Grit
4"	50	\$24.93	\$26.38	\$27.85	\$30.04	\$31.51	\$33.75	\$38.12
5"	50	36.66	38.84	41.80	43.99	47.66	50.58	57.18
6"	50	51.30	54.26	57.92	62.31	66.73	71.12	80.61
7"	50	73.31	77.69	82.84	88.68	93.83	100.44	113.62
8"	50	93.09	97.44	104.81	112.13	119.49	127.55	144.41
9"	50	119.49	125.35	134.88	142.94	152.46	163.47	184.71
10"	25	73.66	77.33	83.58	88.69	94.56	101.16	114.35
12"	25	107.42	112.88	121.69	129.00	137.44	146.95	166.03

For intermediate sizes use next higher list price. Call for availability of other sizes.

FLAP DISCS
 BONDED
 NON-WOVEN
 QUICK CHANGE
 BELTS
 ROLLS
 SHEETS
 FLAPWHEELS
 SPECIALTY
DISCS
 SAFETY
 POWER TOOLS
 REFERENCE

PSA Discs - Paper WITH HOLES OR WITHOUT

Call for availability of other sizes.
For intermediate sizes use next higher list price.

PS 33 ALUMINUM OXIDE STEARATE B/C WEIGHT PAPER PRICE PER BOX/CASE

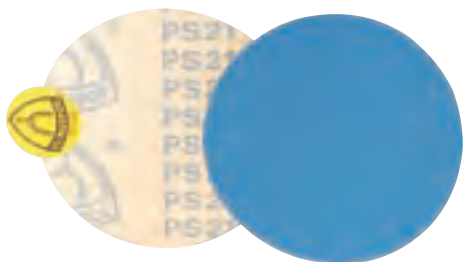
Diameter	Box/Case Qty	100 Grit & Finer	80 Grit	60 Grit	40 Grit
3 1/2"	100/Box	\$33.10	\$34.70	\$37.85	\$42.59
4"	100/Box	33.10	34.70	37.85	42.59
4 1/2"	100/Box	33.10	34.70	37.85	42.59
5"	100/Box	33.10	34.70	37.85	42.59
6"	100/Box	43.38	45.41	48.87	63.68
8"	50/Box	38.36	40.32	43.43	56.24



PS 21 ALUMINA ZIRCONIA F WEIGHT PAPER PRICE PER BOX

Our longest lasting paper PSA disc. Offers smooth finishes and long life in wood or metal applications.

Diameter	Box Quantity	100 Grit & Finer	80 Grit	60 Grit	40 Grit	36 Grit
5"	100	\$82.30	\$86.04	\$89.78	\$101.03	\$106.62
6"	100	119.70	125.31	132.80	149.62	159.01
7"	100	172.09	183.31	192.66	216.99	231.94
8"	50	109.45	115.99	121.60	133.76	140.29
9"	50	139.37	147.76	156.18	175.84	186.12
10"	50	171.14	182.36	192.66	216.99	235.68
12"	25	125.78	132.80	141.22	158.53	168.36



PS 29 ACT ALUMINUM OXIDE OPEN COAT F WEIGHT PAPER PRICE PER BOX

Diameter	Box Quantity	100 Grit & Finer	80 Grit	60 Grit	40 Grit
5"	100	\$68.61	\$71.69	\$74.82	\$84.19
6"	100	99.77	104.43	110.67	124.71
7"	100	143.42	152.76	160.54	180.82
8"	50	91.22	96.64	101.33	111.45
9"	50	116.13	123.13	130.15	146.53
10"	50	142.63	152.00	160.54	180.82
12"	25	104.83	110.67	117.71	132.12



PS 36 ALUMINA ZIRCONIA STEARATE C/D WEIGHT PAPER PRICE PER BOX

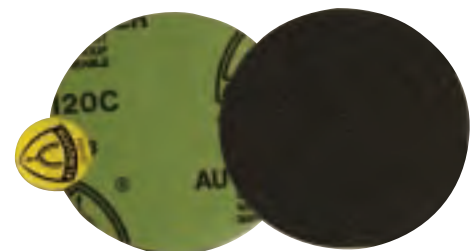
Diameter	Box Quantity	100 Grit & Finer	80 Grit	60 Grit	40 Grit	36 Grit
5"	100	\$40.71	\$42.66	\$46.51	\$52.34	■
6"	100	53.32	55.81	60.09	70.55	■
5"	50	■	■	■	■	\$31.11
6"	50	■	■	■	■	41.33



PS 11 SILICON CARBIDE WATERPROOF A/C WEIGHT PAPER

Wet sanding of wood finishes, glass, stone or clay are easily accomplished with these waterproof discs.

Diameter	Box Quantity	220A Grit & Finer	180C Grit	150C Grit	120C Grit	100C Grit	80C Grit	60C Grit
3 1/2"	100	\$53.01	\$54.56	\$57.70	\$60.79	\$67.03	\$70.14	\$73.25
4"	100	53.01	54.56	57.70	60.79	67.03	70.14	73.25
5"	100	59.24	63.93	65.46	68.61	74.82	81.06	84.19
6"	100	85.73	90.40	95.09	99.77	109.11	115.37	123.13
7"	100	127.82	137.17	143.42	148.09	165.21	174.60	185.52
8"	50	82.61	86.51	91.22	96.64	109.92	110.67	116.13
9"	50	104.43	109.90	115.37	122.39	133.29	141.06	149.62
10"	50	128.60	135.61	142.63	150.42	164.46	174.60	184.70
12"	25	94.30	99.37	104.83	109.92	120.42	127.82	135.23



PRICE PER BOX

PSA Discs - Cloth - WITH HOLES OR WITHOUT

KL 385 ALUMINUM OXIDE JF WEIGHT CLOTH PRICE PER BOX

Diameter	Box Quantity	100 - 150 Grit	80 Grit
5"	100	\$72.27	\$76.63
6"	100	105.52	111.30

LS 312 ALUMINUM OXIDE DRY-LUBE JF WEIGHT CLOTH PRICE PER BOX

Diameter	Box Quantity	120 - 220 Grit
5"	50	\$59.74
6"	50	86.77



PSA Discs - Cloth

When the ultimate in durability is required, these cloth PSA discs will fit the bill. With these discs, extra-long life and consistent finishes are achieved on metal, wood, glass, stone, plastics, etc. PRICE PER BOX/CASE

Diameter	Box/Case Qty	100 Grit & Finer	80 Grit	60 Grit	50 Grit	40 Grit	36 Grit	24 Grit
3"	50/Box	\$42.09	\$43.63	\$46.00	\$47.53	\$49.86	\$51.44	\$56.09
4"	50/Box	48.32	50.69	53.77	56.09	59.24	61.59	70.14
5"	50/Box	56.88	60.01	63.12	66.25	69.38	73.25	82.61
6"	50/Box	82.61	87.28	92.74	98.20	103.65	109.90	123.93
8"	50/Box	152.76	160.54	168.34	176.95	185.52	194.83	219.78
9"	50/Box	193.28	204.90	217.44	229.95	243.94	258.77	290.71
10"	25/Box	118.87	126.26	133.66	141.84	150.42	157.42	178.86
12"	10/Box	69.70	73.88	78.41	83.08	88.08	93.40	104.75
20"	10/Box	197.82	209.65	222.45	235.70	249.88	264.84	297.56
24"	10/Box	276.85	291.95	312.71	332.30	352.90	378.30	427.55
30"	5/Box	208.40	219.54	236.55	251.75	268.33	287.76	326.18

CLOTH PSA DISC AVAILABLE MATERIALS

- LS 309 A/O J wt Cloth
- CS 310 A/O X wt Cloth
- CS 311 A/O Open Coat YX wt Cloth
- CS 411* A/Z X wt Cloth
- * 24-36 Grit - Add 47% to price shown
- 40-60 Grit - Add 39% to price shown
- 80 Grit & Finer - Add 33% to price shown



For intermediate sizes use next higher list price. Call for availability of other sizes.

PSA Disc Rolls

Non-loading discs, a favorite in metal and finish sanding, on a roll in our popular dispenser box.

PS 33 ALUMINUM OXIDE STEARATE B/C WEIGHT PAPER PRICE PER ROLL

Diameter	Roll Quantity	100 Grit & Finer	80 Grit
5"	100	\$33.10	\$34.70
6"	100	43.38	45.41



Waterproof Paper PSA Disc Rolls

PS 11 SILICON CARBIDE WATERPROOF A/C WEIGHT PAPER

Easily dispense these discs for your wet applications.

PRICE PER ROLL

Diameter	Roll Quantity	220 Grit & Finer	180 Grit	150 Grit	120 Grit	100 Grit	80 Grit	60 Grit
5"	100	\$59.37	\$62.50	\$65.99	\$69.31	\$75.73	\$79.72	\$83.67
6"	100	85.33	90.14	94.93	99.75	109.16	115.74	122.89

"NO LINER" DISC ROLLS AVAILABLE - CALL FOR PRICE AND AVAILABILITY



FLAP DISCS
BONDED
NON-WOVEN
QUICK CHANGE
BELTS
ROLLS
SHEETS
FLAPWHEELS
SPECIALTY
DISCS
SAFETY
POWERTOOLS
REFERENCE

FLAP DISCS
BONDED
QUICK CHANGE
BELTS
ROLLS
SHEETS
FLAPWHEELS
NON-WOVEN
SPECIALTY
DISCS
SAFETY
POWERTOOLS
REFERENCE

Kling-On® Discs (Hook & Loop) WITH HOLES OR WITHOUT

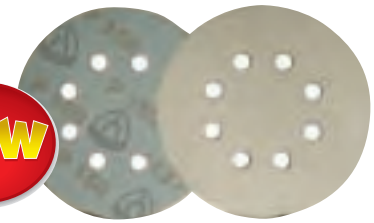
PS 33 ALUMINUM OXIDE STEARATE PAPER

Dia.	Box/Case Quantity	100 Grit & Finer	80 Grit	60 Grit	40 Grit
3 1/2"	100/Box	\$33.10	\$34.70	\$37.85	\$42.59
4"	100/Box	33.10	34.70	37.85	42.59
4 1/2"	100/Box	33.10	34.70	37.85	42.59
5"	100/Box	33.10	34.70	37.85	42.59
6"	100/Box	43.38	45.41	48.87	63.68
8"	50/Box	38.36	40.32	43.43	56.24



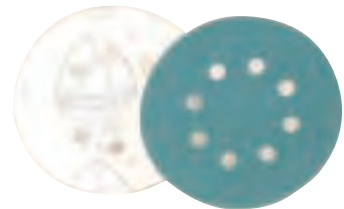
VP 73W EXTRA-LUBE ALUMINUM OXIDE STEARATE LATEX PAPER

Diameter	Box Quantity	100 Grit & Finer	80 Grit
5"	100	\$38.07	\$39.92
6"	100	49.85	57.32
8"	50	44.13	46.37



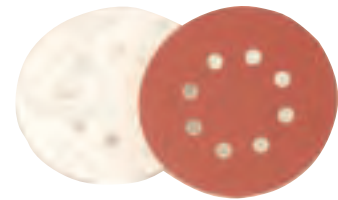
PS 36 ALUMINA ZIRCONIA STEARATE HEAVY PAPER

Dia.	Box Quantity	100 Grit & Finer	80 Grit	60 Grit	40 Grit	36 Grit
5"	100	\$40.71	\$42.66	\$46.51	\$52.34	\$62.21
6"	100	53.32	55.81	60.09	70.55	82.65



PS 29 ALUMINUM OXIDE OPEN COAT HEAVY PAPER *ACT*

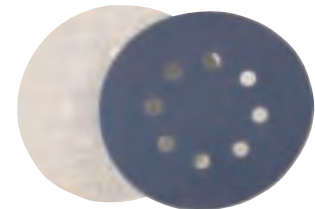
Dia.	Box Quantity	100 Grit & Finer	80 Grit	60 Grit	40 Grit
4 1/2"	50	\$46.79	\$49.12	\$50.69	\$56.09
5"	50	46.79	49.12	50.69	56.09
6"	50	66.26	70.94	74.83	84.20



CS 710 XF HEAT TREATED ALUMINUM OXIDE CLOTH X-FLEX

Dia	Box Quantity	100 - 240 Grit	80 Grit
5"	50	\$43.36	\$45.49
6"	50	54.64	56.74

Please Note: This material is not available in 220 Grit.



PS 11

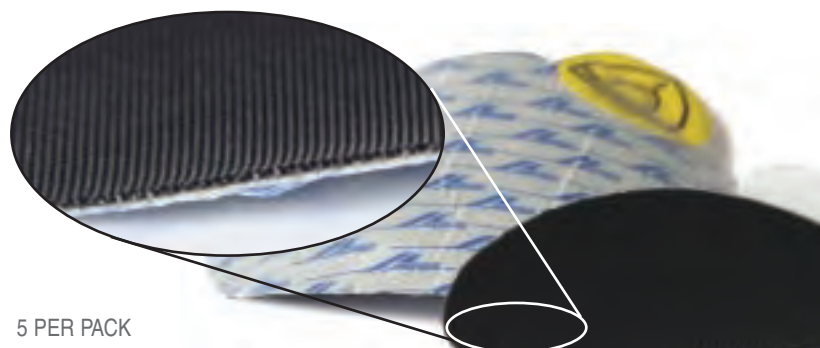
PRICE PER BOX

Diameter	Box Qty & Finer	220 Grit	180 Grit	150 Grit	120 Grit	100 Grit	80 Grit	60 Grit
5"	100	\$59.24	63.93	65.47	68.61	74.82	81.07	84.19
6"	100	85.33	90.14	94.93	99.75	109.16	115.74	122.89
11"	25	132.04	139.12	153.86	153.86	153.86	178.92	196.81

Black Hook Material "CONVERT FROM PSA TO HOOK & LOOP"

Quickly and easily convert your old PSA disc sanders to hook & loop sanders with this "hook" material. Simply determine what size and hole configuration you'll need and affix these pre-cut "hook" discs to your PSA backing pad. Now you can realize the benefits of using KLINGSPOR Kling-On® discs without having to reinvest in new backing pads or new sanders. It's that quick and that easy!

Disc Size	List Price
5" x No Hole	\$13.51
6" x No Hole	15.45
5" x 5 Hole	13.51
5" x 8 Hole	13.51
5" x 16 Hole	13.51
6" x 6 Hole	15.45
6" x 8 Hole	15.45
5" x 9 Hole	13.51
6" x 9 Hole	15.45



5 PER PACK



Backing Pads

- 5" x No Hole Hook & Loop** **FJ41515**\$14.03
 • fits Porter Cable 332 Random Orbit Sander (+also fits PC 333, 334, 335)
- 5" x 5 Hole Hook & Loop** **FJ41515-H5**\$14.03
 • fits Porter Cable 333, 334, 335 Random Orbit Sanders
- 5" x No Hole Hook & Loop** **FJ70515**\$14.03
 • fits Dynabrade models 59005, 59020, 59035, 56815, 56850
- 5" x No Hole PSA** **FJ70515V**.....\$22.77
 • fits Chicago Pneumatic Models CP-3575-SP, CP-3565-SH
 • fits all Dynabrade models 59005, 59020, 59035, 56815, 56850
- 5" x 5 Hole Hook & Loop** **FJ70515-H5**\$14.03
 • fits Dynabrade models 59008, 59023, 59038, 59009, 59024, 59039, 56818, 56853, 56819, 56854
 • fits Sioux Model 790VV • fits Chicago Pneumatic Model CP-3575-VP
- 5" x 8 Hole Hook & Loop** **FJ43515-H8**\$16.04
 • fits Porter Cable and Dewalt
- 5" x 9 Hole Hook & Loop** **FJ48495-H9**\$18.98
 • fits Festool
- 6" x No Hole Hook & Loop** **FJ70516**\$16.04
 • fits Dynabrade Models 59010, 59025, 59040, 56826, 56859



For Porter Cable Orbital Sanders: pads attach with 3 drop down screws thru the face

For Dynabrade Orbital Sanders: pads attach with a 5/16-24 male threaded stud

- 6" x No Hole PSA** **FJ70516V**.....\$26.59
 • fits Chicago Pneumatic Models CP-3576-SP, CP-3566-SH, CP-9164, 763, 763P, 764, 764P
 • fits Ingersoll-Rand Models IR310, IR311 • fits Sioux Model 5558A
 • fits all Dynabrade models 59010, 59025, 59040, 56826, 56859
- 6" x 6 Hole Hook & Loop** **FJ70516-H6**\$16.04
 • fits Dynabrade models 59013, 59028, 59043, 59014, 59029, 59044, 56829, 56862, 56830, 56863 • fits Chicago Pneumatic Models CP-3576-VP, 760, 760P, 761, 761P
- 6" x 9 Hole Hook & Loop** **FJ78596-H9**\$20.79
 • fits Festool

Fusion Foam

KLINGSPOR's Fusion Foam Pads are the latest in high technology abrasives for surface preparation. The unique coating process makes them the highest performing and longest-lasting preparation discs on the market - designed and engineered to obtain an even looking, uniform surface on contoured or flat surfaces. Applications: Fusion Foam is the perfect choice for final finishing of marble and granite surfaces and solid surface materials, sanding filler, primer, orange peel, fiberglass, clear coats, and fine finish restoration. Also excellent for scuff sanding lacquer sealers, conversion varnish sealers, vinyl sealers, or any surface that requires preparation of a top coat. Fusion Foam may be used either wet or dry.



new

*The grit "range" - 800-1200, 1200-1500, etc.
 - refers to the use of Fusion Foam on variable speed sanders. At slow speeds the product performs at the coarser end of the range; at higher speeds, the product performs at the finer end of the range.

Diameter	Box Quantity	3500-2800	2500-1800	1500-1200	1200-800
3"	5	\$2.90	\$2.90	\$2.90	\$2.90
5"	5	4.53	4.53	4.53	4.53
6"	5	5.78	5.78	5.78	5.78

* Discs are available in ALUMINUM OXIDE in 800-1200 and 1200-1500 grit.
 Discs are available in SILICON CARBIDE in 800-1200, 1800-2500 and 2800-3500 grit. Please specify when ordering.

FLAP DISCS
 BONDED
 NON-WOVEN
 QUICK CHANGE
 BELTS
 ROLLS
 SHEETS
 FLAPWHEELS
 SPECIALTY
 DISCS
 SAFETY
 POWER TOOLS
 REFERENCE



SAFETY PRODUCTS

KLINGSPOR offers a complete line of safety products to make the workplace a healthier, happier environment. Please inquire about these products for the protection of your employees.

- Safety Glasses
- Earplugs
- Nuisance Dust Masks
- NIOSH Approved Particulate Respirators
- Ear Muffs
- Half Mask Respirators
- Hard Hats

Eyewear



Provides 99.9% UVA and UVB protection. Available with Anti-Fog coating.



MIRAGE Lightweight • Full Wraparound Frame

These top-notch wrap-around glasses offer contemporary styling with outstanding performance. The close-to-the-face fit and extreme light weight make these ideal for extended all day wear. Features include ANSI Z87.1 approved impact resistance, economical pricing, and wrap-around coverage. With 5 available colors and a smaller frame version, you'll get the perfect fit and the best shade for your application.

Mirage Clear Lens	SPMR0110	\$2.15
Mirage Clear Anti-Fog Lens	SPMR0111	\$3.25
Mirage Smoke Lens	SPMR0120	\$2.85
Mirage Indoor/Outdoor Lens	SPMR0190	\$3.10
Mirage Amber Lens	SPMR0140	\$2.95
Mirage Light Blue Lens	SPMR01B0	\$2.95
Mirage Clear Lens 10% Smaller Frame	SPMRS110	\$2.15
Mirage Indoor/Outdoor Lens 10% Smaller Frame	SPMRS190	\$3.00



Available with Anti-Fog coating.

RAD-SEQUEL

- Lightweight
 - Full Wraparound Frame
 - Rubber Tipped Temples
 - Rubber Nose Piece for Added Comfort and Extended Wear
 - Polycarbonate lens provides impact resistance
 - Meets or exceeds ANSI Z87.1 + standards
- Five available color options offer more choices to suit your application. The "cheater" lenses in 3 different magnifications bring small parts and small print into focus.

Rad-Sequel Clear Lens	SPRS110	\$3.20
Rad-Sequel Anti-Fog Lens	SPRS111	\$4.00
Rad-Sequel Smoke Lens	SPRS120	\$3.50
Rad-Sequel Light Blue Lens	SPRS1B	\$3.50
Rad-Sequel Indoor/Outdoor Lens	SPRS190	\$4.00
Rad-Sequel Bi-Focal 1.5x Magnification, Clear Lens	SPRSB115	\$8.25
Rad-Sequel Bi-Focal 2.0x Magnification, Clear Lens	SPRSB120	\$8.25
Rad-Sequel Bi-Focal 2.5x Magnification, Clear Lens	SPRSB125	\$8.25



Available with telescoping temples.

JOURNEY

- Excellent Coverage
- Adjustable Temple
- Rubber Nosepiece



Wrap around lens provides excellent optics and coverage. Gel nosepiece allows for all day comfort. 4-Position telescoping temples for superior fit. Lenses are hard coated for scratch resistance. ANSI Z87.1-2003 certified. Choose from 4 popular colors.

Journey Clear Lens	SPJR0110	\$4.40
Journey Light Blue Lens	SPJR01B	\$5.32
Journey Indoor/Outdoor Lens	SPJR0190	\$5.32
Journey Amber Lens	SPJR0140	\$5.32



Provides 99.9% UVA and UVB protection.

TITAN GLASSES

- Lightweight Frame

Titan Clear Lens	SPTT0110	\$3.90
Titan Smoke Lens	SPTT0120	\$4.68
Titan Indoor/Outdoor Lens	SPTT0190	\$6.00



Available with Anti-Fog coating.

RAD-ATAC GLASSES

- Lightweight Frame
- Rubber Tipped Temples

RAD-ATAC CLEAR LENS	SPAT110	\$3.10
RAD-ATAC CLEAR ANTI-FOG LENS	SPAT111	\$3.75
RAD-ATAC SMOKE LENS	SPAT120	\$3.75
RAD-ATAC LIGHT BLUE LENS	SPAT1B	\$3.75
RAD-ATAC INDOOR/OUTDOOR LENS	SPAT190	\$3.75
RAD-ATAC AMBER LENS	SPAT140	\$3.75
RAD-ATAC 10% SMALLER FRAME, CLEAR	SPATS10	\$3.10
RAD-ATAC 10% SMALLER FRAME, INDOOR/OUTDOOR	SPATS90	\$3.75



RAD APOCALYPSE GLASSES

- Rad Apocalypse • Soft Rubber Temples and Nose Piece
- Free Neck Cord

Rad Apocalypse Clear Lens	SPAP110	\$6.00
Rad Apocalypse Indoor/Outdoor Lens	SPAP190	\$6.75
Rad Apocalypse Light Blue Lens	SPAP1B	\$6.75
Rad Apocalypse Amber Lens	SPAP140	\$6.75





 Provides 99.9% UVA and UVB protection.

 Meets ANSI

 Available with telescoping temples.



RAD THUNDER GLASSES

Rad Thunder • Rubber Adjustable Temples

Rad Thunder Clear Lens	SPTH110	.....\$4.80
Rad Thunder Indoor/Outdoor Lens	SPTH190	.....\$5.75




 Meets ANSI

 Provides 99.9% UVA and UVB protection.



SHEATH GLASSES

Sheath Over the Glasses One Piece Frame • Ratcheting Temples

Sheath Clear Lens	SPSH610\$5.30
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 Meets ANSI

 Provides 99.9% UVA and UVB protection.



GALAXY GLASSES

• Adjustable Temples • One Piece Lens with Brow

GALAXY CLEAR LENS	SPGX0110\$1.95
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 Meets ANSI

 Provides 99.9% UVA and UVB protection.



CHIEF GLASSES

Chief Over the Glasses One Piece Frame

Chief Clear Lens	SP360C\$2.35
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 Available with Anti-Fog coating.

 Meets ANSI

 Provides 99.9% UVA and UVB protection.



TYPHOON GLASSES

• Lightweight • Extended Brow

Typhoon Clear Lens	SPTY0110	.....\$5.00
Typhoon Clear Anti-Fog Lens	SPTY0111	.....\$6.41
Typhoon Indoor/Outdoor Lens	SPY0190	.....\$6.00
Typhoon Amber Lens	SPTY140	.....\$5.75




 Provides 99.9% UVA and UVB protection.

 Meets ANSI



 Available with Anti-Fog coating.



BARRICADE GOGGLE

Barricade Goggle • Light, Compact • Soft Rubber Frame
• Adjustable Elastic Head Strap

Barricade Goggle Clear Lens	SPBG110	.....\$5.95
Barricade Goggle Smoke Lens	SPBG120	.....\$6.15
Barricade Goggle Clear Anti-Fog Lens	SPBG111	.....\$6.60
Barricade Goggle Smoke Anti-Fog Lens	SPBG121	.....\$7.12



Head and Face



HEAD GEAR WITH RATCHET ADJUSTMENT

Headgear with faceshield	SPHG400	.....\$14.50
Replacement faceshield clear Meets ANSI Z87.1	SPV40815	.....\$7.00
Polycarbonate face shield	SPV0815C	.....\$9.25

SPRAY SOCKS

Our premium spray socks are longer, wider, and softer than the competition. This spray sock is the professional painter's choice and the most comfortable spray sock made.

Spray Socks	SPRAYSOCK\$3.40
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HARD HATS

These hard hats meet the ANSI Z89.1 requirement for impact resistance. Available in either white or yellow, KLINGSPOR hard hats offer a comfortable 4-point web suspension and ratchet adjustment for the perfect fit. Each also has an optional chin strap included should the wearer require one.



White Hard Hat	SPYS22W	.....\$8.21
Yellow Hard Hat	SPYS22Y	.....\$8.21

DISPOSABLE NONWOVEN POLYPROPYLENE COVERALL

This coverall protects from harmful paint overspray, sanding dust, dirt, grease, grime, and pesticides. It's made from polypropylene non-woven material that's lightweight and comfortable. Elastic on wrists and ankles create an even barrier of protection; plus, it's washable so you can reuse.



COVERALL Large	PROTECTIVESUITL	.....\$10.21
COVERALL X-Large	PROTECTIVESUITXL	.....\$10.21
COVERALL XX-Large	PROTECTIVESUITXXL	.....\$11.24
REUSABLE NYLON HOODED SUIT Large	SUIT510056	.....\$72.52
REUSABLE NYLON HOODED SUIT X-Large	SUIT510058	.....\$72.52

Work Gloves

LEATHER WORK GLOVES Split Leather work gloves come in handy in virtually any manufacturing facility whether you're a material handler, emptying the garbage, or working around rough metal, wood, or plastic. These gloves from KLINGSPOR are a "one-size-fits-all" style that is perfect for protection from rough objects, sparks and heat, and for cushioning in heavy-duty work environments. Features a rubberized cuff and reinforced palm. Size: 10 1/2"

Leather Work Gloves	SPGL02\$2.25
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LEATHER WELDING GLOVES

The new KLINGSPOR split leather welding gloves are an excellent choice for your welding applications. These heavy gloves are lined for further protection from the heat involved and the 14" length protects your forearms from spatter. They are completely finished around the cuff for extra comfort.

Leather Welding Gloves	SPGL09\$7.99
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BLACK SABRE WELDING GLOVES

The Black Sabre Welding Glove is a top-notch glove that features premium grade split cowhide leather and sewn with Kevlar® thread for excellent heat resistance. The gauntlet area is lined with flame retardant material while the palm and back have a soft fleece cotton sock lining. All seams are fully welted for total protection. For the ultimate welding glove, choose the Black Sabre!

Black Sabre Welding Glove	SPBlksabre\$13.25
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FLAP DISCS
BONDED
NON-WOVEN
QUICK CHANGE
BELTS
ROLLS
SHEETS
FLAPWHEELS
SPECIALTY
DISCS
SAFETY
POWERTOOLS
REFERENCE

DISPOSABLE PROTECTIVE GLOVES

KLINGSPOR is pleased to offer disposable protective gloves. Almost every manufacturing facility has applications where latex and/or nitrile gloves are used. They may be used directly in the manufacturing process or simply in maintenance operations. Three versions of our KLINGSPOR gloves are available - regular powder-free latex, 5 mil powder-free blue nitrile and 6 mil powder-free black nitrile.

POWDER FREE LATEX GLOVE	ITEM #	QTY PER BOX	
LARGE	LATEX17002	100	\$10.81
EXTRA LARGE	LATEX17003	100	\$10.81
BLUE NITRILE GLOVE - 5 MIL POWDER FREE			
LARGE	NITRILE18002	100	\$17.46
EXTRA LARGE	NITRILE18003	100	\$17.46
BLACK NITRILE GLOVE 6 MIL POWDER FREE			
SMALL	NITRILE66516	100	\$23.25
MEDIUM	NITRILE66517	100	\$23.25
LARGE	NITRILE66518	100	\$23.25
XLARGE	NITRILE66519	100	\$23.25
XXLARGE	NITRILE66520	100	\$23.25
THICKSTER (SAS) 14 MIL LATEX POWDER FREE EXAMINATION GLOVE			
MEDIUM	LATEX6602	50	\$25.75
LARGE	LATEX6603	50	\$25.75
EXTRA LARGE	LATEX6604	50	\$25.75



NITRILE COATED

Nitrile gray color coated palm/fingers, dark blue color nylon knit shell, elastic knit wrist

Nitrile Coated - Small	SP1890S	\$3.90
Nitrile Coated - Medium	SP1890M	\$3.90
Nitrile Coated - Large	SP1890L	\$3.90
Nitrile Coated - Extra Large	SP1890XL	\$3.90



KINCOPRO DRIVER GLOVE

Black color synthetic leather palm and black color form fitting spandex back. Synthetic leather palm with reinforced fingertips. Neoprene wrist support material with hook and loop closure pull strap. Terry cloth sweat wipe on thumb. Machine washable

KincoPro Driver Glove - Medium	SP2011M	\$18.35
KincoPro Driver Glove - Large	SP2011L	\$18.35
KincoPro Driver Glove - Extra Large	SP011XL	\$18.35



LATEX COATED GRIPPING

Blue latex coated palm and fingers, gray color polyester/cotton knit shell, unlined, washable, 10 gauge knit

Latex Coated Gripping - Small	SP1791S	\$3.80
Latex Coated Gripping - Medium	SP1791M	\$3.80
Latex Coated Gripping - Large	SP1791L	\$3.80
Latex Coated Gripping - Extra Large	SP1791XL	\$3.80



KINCO GENERAL GLOVE

Gray color synthetic leather palm with XtremeGRIP!® palm reinforcement with a Kevlar® reinforced thumb crotch. Anti-vibration palm padding. Ventilated neoprene knuckle protection. Black color form fitting stretchable fabric on upper back of hand. Neoprene wrist support material with hook and loop closure pull strap. Terry cloth sweat wipe on thumb. Machine washable

General glove - Medium	SP2041M	\$25.75
General glove - Large	SP2041L	\$25.75
General glove - Extra Large	SP2041XL	\$25.75
3 Cut Fingers - Medium	SP2031M	\$25.75
3 Cut Fingers - Large	SP2031L	\$25.75
3 Cut Fingers - Extra Large	SP2031XL	\$25.75



Hearing Protection

BULLET EARPLUGS

Tapered shaped offers the most comfortable fit for ear canal. It has an extremely soft foam seals without pressure. A smooth surface help to repel dirt. Meets ANSI S3.19 (METHOD FOR DETERMINING NRR) requirements Corded. NRR 32

Resistor Bullet Earplug Uncorded NRR 32 200/Box	SPFP70	\$40.00
Resistor Bullet Earplug with Cord NRR 32 100/Box	SPFP71	\$43.25

BARREL EARPLUGS

Cylindrical shape provides a comfortable fit for virtually any ear canal. A lightweight foam provides a comfortable seal without pressure. They also can be combined with ear muffs or other personal protection equipment to help you meet requirements and comfort that you need. Meets ANSI S3.19 requirements!!! Corded NRR 29

Resistor Barrel Earplug Uncorded NRR 29 200/Box	SPFP60	\$29.75
Resistor Barrel Earplug with Cord NRR 29 100/Box	SPFP61	\$42.00

FOUR FLANGE EARPLUGS

Four flanges for a safe, accurate and comfortable seal. Reusable synthetic rubber provides superior comfort and protection. A soft material is hypoallergenic without PVC (Polyvinyl chloride; a thermoplastic polymer) materials. Nylon dielectric cord conveniently hangs around neck (corded only) NRR 27 Corded NRR

Resistor 4-Flange Earplug Uncorded NRR 27 200/Box	SPFP40	\$134.60
Resistor 4-Flange Earplug with Cord NRR 27 100/Box	SPFP41	\$90.48

SNUG DESIGN EARPLUGS

Super soft Snug Plugs are washable and reusable!!!!!! FDA approved materials are non-toxic; soft and comfortable fit for long hour use. This product is made in the USA! NRR 28 Corded

Snug Plug Earplug Uncorded NRR 28 100/Box	SPJP3050	\$69.60
Snug Plug Earplug with Cord NRR 28 100/Box	SPJP3165.....	\$98.56

ELIMINATOR EARMUFF WITH ADJUSTABLE CUPS NRR26

Adjustable earcups flip outward for an easy, comfortable fit when hanging around neck. The headband is designed to equalize pressure which provides an even seal for better protection. The low profile earcup design provides lightweight all day comfort, flexible inner headband allows earmuffs to automatically adjust to shape of head. Fully dielectric design provides greater safety NRR 26

ELIMINATOR EARMUFF	SPEL26.....	\$21.75
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RDEF GUARD LIGHTWEIGHT

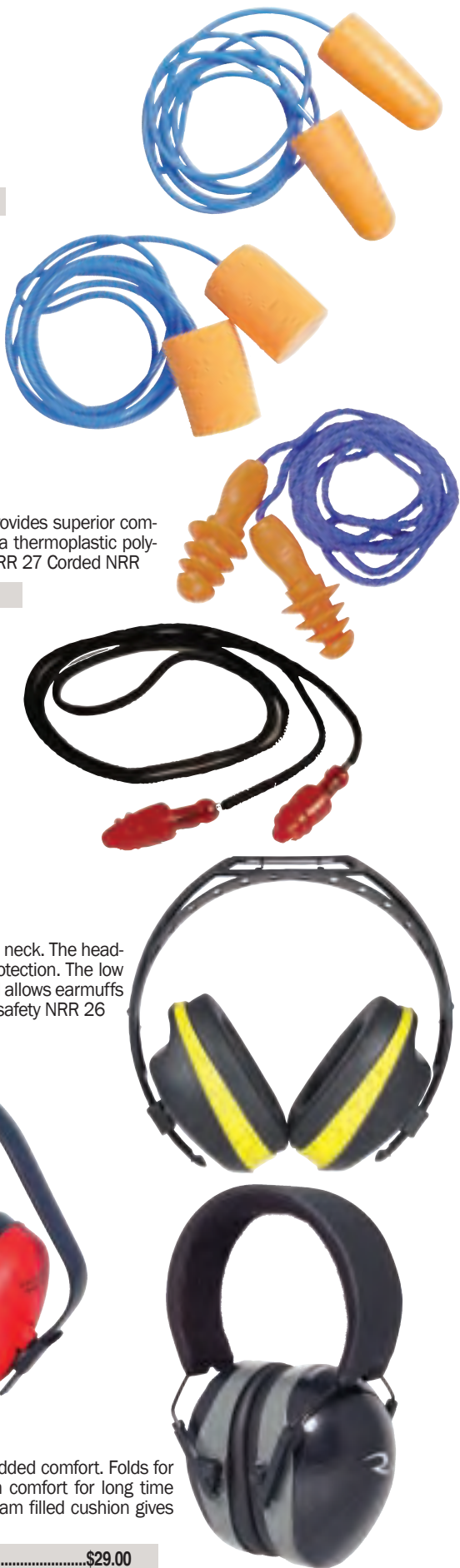
These earmuffs offer adjustable headband slides for maximum comfort and fit; the foamed filled earcups fit securely. They are light weight and offer a contemporary design with red earcups!!! NRR23

RDEF-GUARD EARMUFF	SPDF0310	\$9.75
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TERMINATOR EARMUFF WITH COOLMAX DESIGN NRR29

Soft, lightweight, extra long padding on headband offers added comfort. Folds for compact storage Very lightweight design offers maximum comfort for long time wear. The adjustable headband allows for optimum fit. Foam filled cushion gives comfortable fit when wearing safety glasses!!!! NRR 29

TERMINATOR EARMUFF	SPTR0160	\$29.00
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Respiratory Protection

REUSABLE HALF MASK RESPIRATOR

Half mask respirators can be effective in removing many chemicals, toxins, dusts, mists, spores and biological contaminants from the air. This dual cartridge half mask respirator is made of comfortable, non-irritating TPE and elastic strap and cradle suspension for comfortable wear. The construction with exhalation valves and two filtering cartridges offers very low breathing resistance while the low profile design allows for a wide field of vision and room for eyewear. Their economical price allows for single use applications yet they can be used over and over again. Used in conjunction with the multi-contaminant filters, our half mask respirators will combat either organic gases and vapors or acidic gases and vapors, based on which cartridge is chosen, plus all solids and particulates.



DISPOSABLE DUAL CARTRIDGE HALF MASK RESPIRATOR

Our maintenance-free respirator comes completely assembled with organic vapor cartridges and P95 particulate replaceable pre-filters. This NIOSH approved respirator offers state-of-the-art design, performance and comfort. It features a soft, lightweight elastomeric facepiece, and cradle suspension with easy-adjust headstraps that facilitate a comfortable and proper fit. The low, profile, swept-back design provides a greater field of vision and allows workers to use glasses or goggles. The P Series filters can be used with oil or solid particulates.

- Ready to use. No cartridges to replace and no spare parts to stock. Simplifies your inventory requirements.
- Reduces the record keeping necessary for OSHA compliance regarding maintenance and cleaning.
- Available in two sizes: Medium and Large.



NIOSH APPROVED N95 PARTICULATE RESPIRATORS

All of these particulate respirators are NIOSH approved and conform to NIOSH 42 CFR standard as N95 class. What does that mean to you? It means the filter medium has an efficiency of at least 95% against airborne particulates 0.3 microns in size that are free of oils - dusts, metal fumes, microorganisms and non-oil containing mists. These masks are excellent for many welding exposure situations involving fumes. The soft inner facepiece layer of these is non-irritating and comfortable to wear for long periods of time. The shell doesn't absorb as much moisture from exhaled breath as other masks. The respirators maintain low breathing resistance all day long.



Reusable Half Mask Respirator

Medium. Cartridges sold separately	SP9200.....\$18.00
Large. Cartridges sold separately	SP9300.....\$18.00

P95 Organic Vapor/Acid Gas Cartridges

sold 2 per pack	SPG03.....\$14.30
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P100 Particulate Cartridges - with active carbon

sold 2 per pack	SPG70.....\$14.51
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PANCAKE P100 OV/AG

	SPXP100.....\$8.00
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Disposable Half Mask Respirator Medium

	SP8211.....\$30.13
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Disposable Half Mask Respirator Large

	SP8311.....\$30.13
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N95 Particulate Pre-Filter - sold 10 per pack

	SPG95P.....\$19.22
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Filter Retainer for use with N95 Particulate Pre-Filter

	SP172.....\$4.30
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N95 Particulate Respirator

	SP1730.....\$21.20
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N95 Particulate Respirator w/Valve

	SP1740.....\$21.20
--	--------------------

Nuisance Dust Mask

	SP1501.....\$12.00
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Dynorbital Spirit®

FEATURES	KLINGSPOR PRODUCTS
<ul style="list-style-type: none"> • Comfort handle • Lower profile for improved control • 14 SCFM @ 90psi • High-wear, plastic valve stem • Non-Vacuum to Vacuum Conversion Kits available • Only 1.4 lbs.! 	<ul style="list-style-type: none"> • Kling-On® (Hook & Loop) Paper Discs • PSA Paper Discs • PSA Cloth Discs • 710 XF Kling-On® Cloth Discs



NON-VACUUM * Non - Vacuum to Vacuum Conversion Kits available.

Pad Diameter	3/8 Orbit Models	3/16 Orbit Models	3/32 Orbit Models
5"	59005	59020(H)	59035(H)
6"	59010(H)	59025(H)	59040(H)

SELF-GENERATED VACUUM

* Ready for connection to optional portable self-contained dust collection system.

Pad Diameter	3/8 Orbit Models	3/16 Orbit Models	3/32 Orbit Models
5"	59008	59023(H)	59038
6"	59013	59028	59043

CENTRAL VACUUM

* Has 1" (25 mm) diameter port for easy connection to central vacuum system.

Pad Diameter	3/8 Orbit Models	3/16 Orbit Models	3/32 Orbit Models
5"	59009	59024	59039
6"	59014	59029	59044

(H) - Available in both Hook & Loop and PSA

Dynorbital Supreme

Can be easily converted to self-generated vacuum for connection to a self-contained dust collection system. Can also be converted to connect to a standard central vacuum system.



FEATURES	KLINGSPOR PRODUCTS
<ul style="list-style-type: none"> • Comfort handle • 18 SCFM @ 90psi • Non-Vacuum to Vacuum Conversion Kits available 	<ul style="list-style-type: none"> • Kling-On® (Hook & Loop) Paper Discs • PSA Paper Discs • PSA Cloth Discs • 710 XF Kling-On® Cloth Discs

NON-VACUUM * Non - Vacuum to Vacuum Conversion Kits available.

Pad Diameter	3/8 Orbit Models	3/16 Orbit Models	3/32 Orbit Models
5"	56880	56815	56850
6"	56890	56826	56859

SELF-GENERATED VACUUM

* Ready for connection to optional portable self-contained dust collection system.

Pad Diameter	3/8 Orbit Models	3/16 Orbit Models	3/32 Orbit Models
5"	56883	56818	56853
6"	56893	56829	56862

CENTRAL VACUUM

* Has 1" (25 mm) diameter port for easy connection to central vacuum system.

Pad Diameter	3/8 Orbit Models	3/16 Orbit Models	3/32 Orbit Models
5"	56884	56819	56854
6"	56894	56830	56863

DYNABRADE BACKING PADS

NON-VACUUM PADS

5" Hook-Face Velcro Discs

Part#	Thickness	Nap	Density
DYNA54325	3/8"	Short	Medium
DYNA56157	3/8"	Short	Soft
DYNA56180	5/8"	Short	Medium
DYNA56195	5/8"	Short	Soft

5" Vinyl-Face PSA Discs

Part#	Thickness	Density
DYNA56102	3/8"	Soft
DYNA56106	3/8"	Medium
DYNA56175	5/8"	Medium
DYNA56185	5/8"	Soft

VACUUM PADS

5" Hook-Face Velcro Discs - 5 Hole

Part#	Thickness	Nap	Density
DYNA54326	3/8"	Short	Medium
DYNA56155	3/8"	Short	Soft
DYNA56181	5/8"	Short	Medium
DYNA56196	5/8"	Short	Soft

5" Vinyl-Face PSA Discs - 5 Hole

Part#	Thickness	Density
DYNA56100	3/8"	Soft
DYNA56104	3/8"	Medium
DYNA56176	5/8"	Medium
DYNA56186	5/8"	Soft

RANDOM ORBITAL REFERENCE



Call For Pricing

FLAP DISCS
BONDED
NON-WOVEN
QUICK CHANGE
BELTS
ROLLS
SHEETS
FLAPWHEELS
SPECIALTY
DISCS
SAFETY
POWERTOOLS
REFERENCE

Dynorbital Silver Supreme

FEATURES

- Steel cylinder and end plates increase motor efficiency.
- Stay-tight threaded muffler.
- Single-piece lock ring.
- Low Sound Levels. Muffler system reduces exhaust sound levels.
- Patented bearing protection.
- Smaller ergonomic housing for maximum comfort.
- Muffler elements are easily changed for convenient maintenance.

KLINGSPOR PRODUCTS

- Kling-On® (Hook & Loop) Paper Discs
- PSA Paper Discs
- PSA Cloth Discs
- 710 XF Kling-On® Cloth Discs



NON-VACUUM * Non - Vacuum to Vacuum Conversion Kits available.

Pad Diameter	3/8 Orbit	3/16 Orbit	3/32 Orbit
5"	69005	69020	69035
6"	69010	69025	69040

SELF-GENERATED VACUUM

* Ready for connection to optional portable self-contained dust collection system.

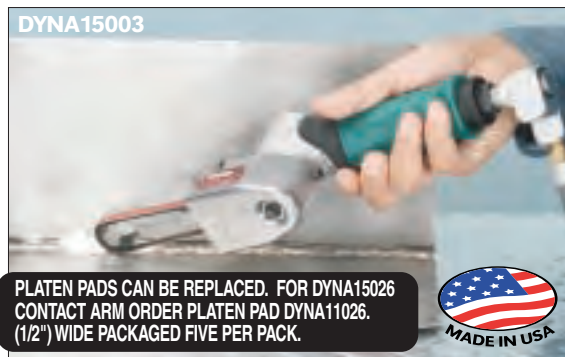
Pad Diameter	3/8 Orbit	3/16 Orbit	3/32 Orbit
5"	69008	69023	69038
6"	69013	69028	69043

CENTRAL VACUUM

* Has 1" (25 mm) diameter port for easy connection to central vacuum system.

Pad Diameter	3/8 Orbit	3/16 Orbit	3/32 Orbit
5"	69009	69024	69039
6"	69014	69029	69044

Mini-Dynaflex® II Air Powered Abrasive Belt Tool. Ideal for strap polishing and working in narrow openings.



FEATURES

- For broad range of applications
- Lightweight ergonomic design handle features 7° offset. Multi-position grinding head pivots 180°
- Pop-off belt guard for easy abrasive change; easy belt tracking adjustment knob
- Tool includes 15026 Contact Arm for 1/2" wide x 12" long abrasive belts and 15118 Drive Wheel.
- For added versatility, tool can be easily converted to die grinder with optional 01644 (1/4") Threaded Collet Insert

KLINGSPOR PRODUCTS

- 1/8", 1/4" and 1/2 wide x 12" coated long belts
- 1/8", 1/4" and 1/2 wide x 12" non-woven long belts

Model Number	Motor HP (W)	Motor RPM	Sound Level	Abrasive Belt Size Inch (mm)	Maximum Air Flow CFM/SCFM (LPM)	Max. SFPM (SMPM)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)
15003	.4 (298)	25,000	80 dB(A)	1/8-1/2 (3-13) W x 12 (305) L	3/20 (566)	4,890 (1,486)	1.8 (.8)	11-3/4 (298)	3-1/2 (89)

Additional Specifications: Air Inlet Thread 1/4" NPT • Hose I.D. Size 1/4" (6 mm) • Air Pressure 90 PSIG (6.2 Bar)
Recommended Air Line Accessory: For Best Performance use 95676 Coupler/Plug Assembly

Die Grinders



FEATURES

- .4 hp, Straight-Line, 25,000 RPM, Rear Exhaust
- Collet Insert Size: 1/4 in.
- Gearless Motor reduces downtime and lessens repair expense

KLINGSPOR PRODUCTS

- KM 613 1/4" shank
- Cartridge rolls 1/4" shank
- No lap bands 1/4" shank
- Carbide burrs 1/4" shank

FEATURES

- 4 hp, Right Angle, 20,000 RPM, Rear Exhaust
- Collet Insert Size: 1/4 in.
- Centerline height is 2-1/16 in.
- Ideal for hard to reach areas

KLINGSPOR PRODUCTS

- 1" and 1 1/2" QDC
- 2", 3" and 4" QDC
- 1", 1-1/2", 2" and 3" QRC & QMC



Dynafile® II

Air Powered Abrasive Belt Tool
Reach normally inaccessible areas



DYNA40320

PLATEN PADS CAN BE REPLACED. FOR DYNA11206 CONTACT ARM ORDER PLATEN PAD DYNA11109. (3/4") WIDE PACKAGED FIVE PER PACK.



DYNA40320

FEATURES	KLINGSPOR PRODUCTS
<ul style="list-style-type: none"> Grind, deburr, blend and polish. Work on metal, plastic, fiberglass, composites, rubber, glass and stone Lightweight, ergonomic 7° offset design Grinding head pivots 360° Grind off contact wheel or platen pad Finish & polish using slack of belt Secure belt housing at desired position using 95134 Hex Key 	<ul style="list-style-type: none"> Includes 11206 Contact Arm for 3/4" wide x 18" long abrasive belts

FOR 18" LONG BELTS

DYNA40320

- Includes 11206 Contact Arm for 3/4" wide x 18" long abrasive belts.

FOR 20-1/2" LONG BELTS

DYNA40326

- Includes 11287 Contact Arm for 5/8" or 3/4" wide abrasive belts. 11287 is only arm compatible with 20-1/2" long belts.



DYNA40321



Versatility Kit

- Includes Model 40320 Dynafile® II with 11203 and 11206 Contact Arms; eight abrasive belts and durable carrying case.

DYNA40321

- Also includes: 11204 Contact Arm and 50010 (1/4") Collet for die grinder use.

DYNA40324

Metric

- Also includes: 11320 Contact Arm and 50015 (6 mm) Collet for die grinder use.

ABRASIVE CAPACITY

- 1/8", 1/4" to 3/4" wide x 18", 20-1/2" and 24" lengths.

ACCESSORIES

- For broad range of applications see optional contact arms.

TUNE-UP KIT

- Model 40381: Tune-Up Kit 96174; all other models this page: Tune-Up Kit 96044.

TECH TIP

- Air motor easily converts to 1/4" die grinder (50010 Collet), 6 mm die grinder (50015 Collet) or 1/4" drill (53032 Chuck). Order collet and chuck separately.



Observe appropriate safety regulations. Use eye, face, hearing, respiratory, hand and body protection when using abrasive products.

FLAP DISCS
BONDED
NON-WOVEN
QUICK CHANGE
BELTS
ROLLS
SHEETS
FLAPWHEELS
SPECIALTY
DISCS
SAFETY
POWERTOOLS
REFERENCE

DISCS SAFETY POWERTOOLS REFERENCE SHEETS ROLLS BELTS QUICK CHANGE NON-WOVEN BONDED FLAP DISCS

Works best when routinely lubricated (Item# 95542)



Lightweight Dyninger DYNA52050

FEATURES

- For use with Spindle Mounted Sanding Stars
- 3,200 rpm variable speed
- Air-Flow Control Dynaswivel®
- Rear exhaust
- Replaces tedious hand sanding

KLINGSPOR PRODUCTS

- 4" Sanding Stars
- Flutter Sheets (with Flutter Sheet Arbor)
- 4" and 6" Power Wheels

ALSO AVAILABLE:
 Dyna52052 Dyninger with 1/2" Arbor
 Dyna52051 Dyninger with 6mm Collet



4-1/2" Right Angle Air Grinder MODEL 52632



1.3 hp, 12,000 RPM, Side Exhaust, 5/8"-11 Spindle Thread

FEATURES

- Depressed Center Wheel Grinder is ideal for fast weld and stock removal, heavy deburring, rust and scale removal
- Includes 25212 Wheel Guard, 25262 Backup Flange and 53696 Locking Flange
- Vibration Dampening Side Handle included
- Rotational Exhaust system allows operator to rotate a full 360 degrees to ensure that exhaust is directed away from operator
- BPS900001 Adjustable spanner wrench

KLINGSPOR PRODUCTS

Any 4-1/2" sizes of the following:

- CMT Flapdisc
- SMT Flapdisc
- NCD Power wheel
- Cut of wheel
- Grinding Discs
- WSM 617 Flap Wheel
- Unitized Discs



Dynastraight® DYNA13204

FEATURES

- 3,400 rpm
- Ideal set-up for Dynacushion®
- Wheel
- 5/8"-11 threaded arbor for use with pneumatic wheels
- Available combo arbor for wheels up to 3" wide and 5/8" or 1" diameter center hole
- Great for stainless steel work

KLINGSPOR PRODUCTS

- 3 1/2" wide Non-Woven Belts
- SM611 Abrasive Flapwheels (up to 3,800 rpm) or 10" diameter
- VKM 630 Small Finishing Flapwheels
- 8" Sanding Stars
- Flutter Sheets
- 4" and 6" diameter Power Wheels

ALSO AVAILABLE:

Model 13205

13071 Combo Arbor for up to 3" wide wheels which have either 5/8" or 1" diameter center hole. Any Dynacushion® pneumatic wheel with 5/8" bore may also be mounted.



Versatility Kit

* Includes 13204 Dynastraight; 94472 Dynacushion Pneumatic Wheel; 94465 Wheel Inflation Tool (1/4" NPT) ; 94300 Dynaswivel (1/4" NPT) ; 13016 Arbor; and an assortment of abrasives.

DYNA13220










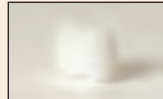






Observe appropriate safety regulations. Use eye, face, hearing, respiratory, hand and body protection when using abrasive products.



POWER TOOLS

DYNABRADE AUTHORIZED ACCESSORIES

PRODUCT	FEATURES
 <p>COMPOSITE DYNASWIVEL® DYNA94300</p>	<ul style="list-style-type: none"> • Swivels 360° at two pivot points • Improves tool maneuverability • Extends hose life • 1/4" NPT thread size • Non-marring composite construction
 <p>FLOW CONTROL DYNASWIVEL® DYNA95734 ALUMINUM HOUSING.</p> <p>COMPOSITE DYNASWIVEL® DYNA94407</p>	<ul style="list-style-type: none"> • Finger tip air-flow control dial • 1/4" NPT • Heavy-duty construction • Swivels 360° at two pivot points
 <p>1/2" NPT FILTER/REGULATOR/LUBRICATOR DYNA10681</p>	<ul style="list-style-type: none"> • Cost-Effective Solutions for Air Systems • Unit has modular connections with mounting brackets for easy installation
 <p>SAFETY TYPE MODEL DYNAJET IN-LINE BLOW GUN DYNA94467</p>	<ul style="list-style-type: none"> • Reduces line pressure down to 30 psi • Keep work pieces and workstations clean • Durable, aluminum construction • Mounts permanently between coupler & air hose • 1/4" NPT female threads at both ends • Weighs only 2 oz. • Purge lines of water and contaminants
 <p>WHEEL INFLATION TOOL DYNA94465</p>	<ul style="list-style-type: none"> • Controlled inflation/deflation of pneumatic wheels • Fits 1/4" air hose • A must with the Dynacushion®
 <p>DYNACUSHION DYNA94472</p> <p>DYNA94508</p>	<ul style="list-style-type: none"> • Pneumatic wheel • 5" Diameter x 3 1/2" in width (3 1/2" x 15 1/2") on DYNA94472 • 3 1/4" Diameter 3" width (3" x 10 11/16") belt size on DYNA94508 • Composite hub, 5/8" - 11 thread
 <p>DYNABRADE GREASE AND GREASE GUN</p> <p>10 OZ GREASE TUBE: DYNA95542 GREASE GUN: DYNA95541</p>	<ul style="list-style-type: none"> • Multi-purpose grease for all types of bearing, cams, gears • High film strength; excellent resistance to water, steam, etc. • Workable range 0° to 300°
 <p>GEAR OIL DYNA95848</p>	<ul style="list-style-type: none"> • 2-1/2 ounce
 <p>DYNABRADE AIR LUBE AVAILABLE IN SIZES 4 ounces DYNA95821 1 pint DYNA95842 and 1 gallon DYNA95843</p>	<ul style="list-style-type: none"> • Highly recommended in use of all Dynabrade tools • Absorbs up to 10% of its weight in water • Prevents rust and formation of gum and sludge • Keeps pneumatic tools operating longer with greater power and less downtime
 <p>DYNABRADE MUFFLER INSERT DYNA56027</p> <p>30 PACK DYNA56054</p>	<ul style="list-style-type: none"> • Highly recommended to keep contaminants out of tool motor • For use in many Dynabrade pneumatic tools
 <p>DYNABRADE MUFFLER CAP DYNA56028</p> <p>DYNABRADE THREADED MUFFLER CAP DYNA69359</p>	<ul style="list-style-type: none"> • Standard rear muffler cap for all Dynabrade orbital sanders and many other Dynabrade pneumatic tools
 <p>DYNABRADE 26mm WRENCH DYNA50679</p>	<ul style="list-style-type: none"> • Standard 26mm flat wrench to change pads on all palm style orbital sanders
 <p>QUICK CHANGE COUPLER NPT FEMALE END DYNA95674</p>	<ul style="list-style-type: none"> • Durable nickel-plated steel and brass construction • Single action quick connect by just inserting plug into coupler. Pull back on sleeve of coupler for quick disconnect
 <p>1/4" "PORTED" MALE TO MALE PLUG NPT MALE END DYNA95675</p>	<ul style="list-style-type: none"> • Ported design to prevent starving of the air tool • Provides up to twice the airflow compared to standard plug design • Durable zinc-plated steel construction

FLAP DISCS

BONDED

NON-WOVEN

QUICK CHANGE

BELTS

ROLLS

SHEETS

FLAPWHEELS

SPECIALTY

DISCS

SAFETY

POWER TOOLS

REFERENCE

PRODUCT RECOMMENDATIONS FOR SPECIFIC MATERIALS

Aluminum - Alumina Zirconia for rough grinding. Aluminum Oxide for general purpose grinding and finishing. Open coat is useful for softer types of aluminum. Silicon Carbide is sometimes used in abrasive machining, coil grinding, roll grinding, and wide belt deburring.

BRASS/BRONZE/COPPER/NON-FERROUS METALS - Aluminum Oxide is most common. Alumina Zirconia is used equally well. Silicon Carbide is sometimes used for finishing or polishing.

CAST IRON - For most types of cast iron, use Alumina Zirconia for rough grinding and Aluminum Oxide for grinding and finishing. For Chilled Cast Iron or Grey Iron, Silicon Carbide is sometimes used.

CHROME - Alumina Zirconia or Aluminum Oxide can be used. Mostly Aluminum Oxide.

CORIAN®/PLASTIC - Silicon Carbide or Stearate Aluminum Oxide products are recommended almost exclusively. Alumina Zirconia is sometimes used in rougher applications. Usually run wet, especially thermoplastics.

FIBERGLASS - Silicon Carbide almost exclusively. Alumina Zirconia is useful also in rough applications.

GLASS - Usually Silicon Carbide for any application. Occasionally Alumina Zirconia is used for flat stock or mirror stock. Glass is usually ground wet to reduce burning and breakage. Cork, SC MIX (CS 330) is used for wet polishing.

GRANITE/MARBLE/STONE - Silicon Carbide almost exclusively. Usually ground wet to reduce dust and eliminate burning.

LEATHER - Aluminum Oxide most widely used. Alumina Zirconia is popular with shoe manufacturers. Sometimes Silicon Carbide is found to be used. Open coats are also very common.

Paint - Usually Silicon Carbide but sometimes Alumina Zirconia. Zinc Stearate materials common (PS 33).

RUBBER - Almost always ground with Silicon Carbide. Soft rubber or polyurethane is usually ground wet. Most other types are usually ground dry. Sometimes 24 grit Aluminum Oxide is used for heavy stock removal.

STAINLESS STEEL - Alumina Zirconia or Aluminum Oxide. Silicon Carbide is sometimes used for final finishing because a more consistent scratch pattern is achieved.

STEEL - Alumina Zirconia or Aluminum Oxide. Occasionally, Silicon Carbide will be used for final polishing on some applications.

TITANIUM - Silicon Carbide, or Alumina Zirconia for rough grinding.

WOOD - Aluminum Oxide for general purpose sanding. Alumina Zirconia can be used for planing operations and Silicon Carbide is often used when working with particle board.

COATED ABRASIVE SAFETY GUIDELINES

1. Eye protection should always be worn when using any machinery-operated abrasive product (A.N.S.I. Standard Z87.1). Body protection should also be worn whenever appropriate; arm guards, leather gloves, and aprons. Loose clothing, jewelry and hair should always be secured before using any powered machinery.
2. Machinery should always be maintained in good working order. Proper electrical controls should be easily reached and in good working order. Safety guards on machines should never be removed. Machinery should be disconnected from the power source before making any abrasive or machine adjustments.
3. Proper dust control is essential. Always observe OSHA regulations regarding dust collection. Dust masks are recommended to minimize dust inhalation. Dust collection systems should be properly maintained and cleaned frequently.
4. Never use a coated abrasive product which is cut, creased, or otherwise damaged. Observe proper storage conditions.
5. Proper machinery use:
 - A. Always run lap joint belts in proper direction.
 - B. Jog the machine to start abrasive belt tracking, rather than full-power starts.
 - C. If unusual ticking or bumping noises are heard on a running abrasive belt, check belt and machine for possible damage.
 - D. On offhand applications, present the workpiece to the abrasive belt below the center of a contact wheel.
 - E. Proper belt tension should always be maintained.
 - F. Belt tracking should be properly adjusted.



Look for these safety warnings in your workplace and on abrasive products.

Call for more detailed safety information.



BELT SANDING MATERIAL/APPLICATION RECOMMENDATION CHART GENERAL GUIDELINES

(call for specific information)

Operation	Metal	Grit	
Abrasive Planing:	Soft Metals: CS 311, CS 413, CS 416, CS 610, CS 811YY Hard Metals: CS 308, CS 310, CS 412, CS 411/416, CS 612, CS 811YY	24-40	
Wide Belts:	Primary Soft Metals: CS 311, CS 413, CS 416, CS 610 Hard Metals: CS 308, CS 310, CS 412, CS 411/416, CS 612	40-60	
	Intermediate Soft Metals: CS 311, CS 413, CS 416, CS 610 Hard Metals: CS 308, CS 310, CS 412, CS 411, CS 416, CS 612	80-120	
	Finish Soft Metals: CS 311, CS 413 Hard Metals: CS 308, CS 310, CS 412, PS 20, PS 21	120 & Finer	
	Edge Sanding:	Soft Metals: CS 311, CS 413 Hard Metals: CS 308, CS 310, CS 412, CS 411	80-180
	Stroke Sanding:	Soft Metals: CS 311, CS 413 Hard Metals: CS 308, CS 310, CS 412	80-180
	Backstand:	Grinding CS 308, CS 310, CS 412, CS 413, CS 311, CS 411, CS 610, CS 612, CS 811YY	24-60
Finishing LS 309JF, LS 312, LS 313, CS 710XF		80-400	
Portable Belts:	CS 308, CS 310, CS 311, CS 412, CS 413, CS 411	24-120	

AIR SUPPLY RECOMMENDATIONS FOR RANDOM ORBITAL SANDERS

Sufficient air supply to portable sanding tools is crucial for proper finishing characteristics. If the air pressure is too low, random orbital disc sanders will be much more likely to create "swirl marks" or "fish hooks" on the workpiece.

KLINGSPOR RECOMMENDS THE FOLLOWING:

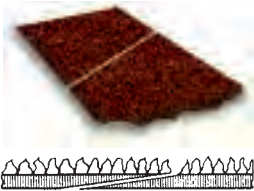
- Maintain steady operating air pressure of 90 PSI under load. Remember this is not the same as the air pressure to the tool when it is not in use. Use your gauge on the sander to determine actual p.s.i. under load.
- Most palm style random orbital sanders require an air volume of 15 to 18 standard cubic feet per minute (SCFM). Compressors should be at least 5HP., two stage design.
- If using rubber or plastic air hoses with an inside diameter of 3/8", a maximum length of 20 feet from the iron air supply pipe is suggested.
- Use larger I.D. hoses and couplings whenever possible. Standard hose inside diameters are typically 5/16", 3/8" and 1/2". Also, make sure the couplings' I.D. sizes are no more than one size smaller than the hose I.D. Be sure male and female couplings are of the same I.D.
- Always keep air tools properly maintained. Keep tools properly lubricated and clean. Replace worn bearings and backing pads. Keep mufflers and exhaust areas clean and unrestricted.

FLAP DISCS
BONDED
NON-WOVEN
QUICK CHANGE
BELTS
ROLLS
SHEETS
FLAPWHEELS
SPECIALTY
DISCS
SAFETY
POWERTOOLS
REFERENCE

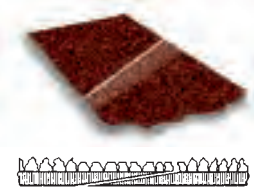
ABRASIVE GRAIN SIZE

All KLINGSPOR coated abrasive products, with the exception of Alumina Zirconia, are graded by grit size using the FEPA or P-grade scale. Some competitive products are graded according to the CAMI (Coated Abrasives Manufacturers Institute) scale. P-graded products are easily identified by a "P" preceding the grit number on the back of the material. The chart on this page compares both scales, along with relative size in inches and microns.

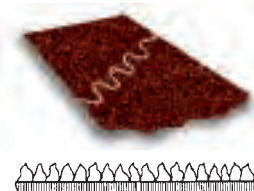
ABRASIVE BELT JOINTS



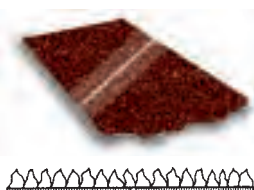
NO.1 Belt ends are overlapped with no grain removed off top of splice. Offers maximum protection against wear in the lap joints. For soft contact wheels, slack of belt operations and paper belts 150 and finer used in wide belt or lever stroke sanding. Standard joint for pump sleeves.



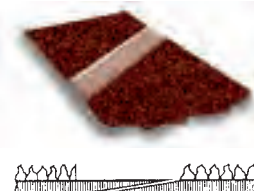
NO.2 Belt ends are overlapped with partial grain removed off top of splice (partial top-skived). Smooth running over platens or hard contact wheels for cloth belts 80 grit or finer. Seen mainly on edge sanders where bull nose or dead head sanding is being done.



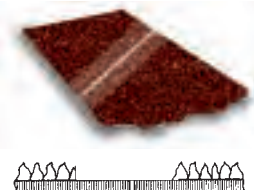
NO.3 Similar to Type 4 joint except the two belt ends are cut in an interlocking configuration, or zig-zag. Can be run in either direction. Available in grit size 80 or finer only. Designed specifically for glass grinding operations. Not for use on any paper belts.



NO.4 "Butt splice", in which belt ends are butted together and joined by high strength tape on underside of joint. Allows belt to run in either direction for greater belt life and convenience. Smooth running. Most popular splice, suitable for a wide variety of applications and belt sizes. Strongest of the non-specialty joints.



NO.6 Belt ends are overlapped with a complete grain removal off top of splice (fully top-skived) and cut at a 45 degree angle minimizing the amount of time the joint is in contact with the workpiece. Used where a high degree of conformability in the joint area is required, such as in mold sanding. For cloth belts only!



"T" Joints A top skived #4 butt joint used on cloth belts 150 and finer for platen sanding operations on wide belt sanders or in grits 80 and finer on other belt operations where chatter is a problem when using a #4. Not for use on paper belts. Cloth only.

GRIT GRADING SYSTEMS

FEPA (P-Grade)	CAMI	Finishing Scale	Average Particle Size In Inches	Micron Scale μ	Comparable Grit Symbol (Old Scale)
P2000	1000	•	.00042	9.5	*
P1500	800	•	.00051	12.3	*
P1200	•	A16	.00060	15.3	*
•	600	•	.00062	16.0	*
P1000	•	•	.00071	18.3	*
•	500	•	.00077	19.7	*
•	•	•	.00079	20.0	*
P800	•	A25	.00085	21.8	*
•	400	A30	.00092	23.6	10/0
•	•	•	.00098	25.0	*
P600	•	A35	.00100	25.75	*
•	360	•	.00112	28.8	*
•	•	•	.00118	30.0	*
P500	•	•	.00018	30.2	*
P400	•	A45	.00137	35.0	*
•	320	•	.00140	36.0	9/0
•	•	•	.00158	40.0	*
P360	•	•	.00158	40.5	*
•	280	•	.00172	44.0	8/0
•	•	•	.00177	45.0	*
P320	•	A60	.00180	46.2	*
•	•	•	.00197	50.0	*
P280	•	•	.00204	52.5	*
•	240	A65	.00209	53.5	7/0
•	•	•	.00217	55.0	*
P240	•	A75	.00228	58.5	*
•	•	•	.00230	60.0	*
P220	•	A90	.00254	65.0	*
•	220	A85	.00257	66.0	6/0
P180	180	A110	.00304	78.0	5/0
•	150	A130	.00363	93.0	4/0
P150	•	•	.00378	97.0	*
•	120	•	.00452	116.0	3/0
P120	•	A160	.00495	127.0	*
•	100	•	.00550	141.0	2/0
P100	•	A200	.00608	156.0	*
•	80	•	.00749	192.0	0
P80	•	•	.00768	197.0	*
P60	•	•	.01014	260.0	*
•	60	•	.01045	268.0	1/2
P50	•	•	.01271	326.0	*
•	50	•	.01369	351.0	1
P40	•	•	.01601	412.0	*
•	40	•	.01669	428.0	1-1/2
P36	•	•	.02044	524.0	*
•	36	•	.02087	535.0	2
P30	•	•	.02426	622.0	*
•	30	•	.02488	638.0	2-1/2
•	24	•	.02789	715.0	3
P24	•	•	.02886	740.0	*



ABRASIVE GRAINS

ALUMINUM OXIDE - A blocky, hard grain best suited for sanding and grinding of ferrous and non-ferrous metals, wood and solid surface materials.

SILICON CARBIDE - A sharp, very hard and brittle grain best suited for sanding of glass, plastics, rubber, ceramics, solid surface materials and some non-ferrous metals.

ALUMINA ZIRCONIA - A very hard and sharp grain that works well for grinding of stainless steel, spring steel, titanium and other hard steels and for dimensioning of wood.

EMERY - An abrasive that is a natural composite of Corundum and Iron Oxide. The grains are blocky, cut slowly, and tend to polish the material being abraded.

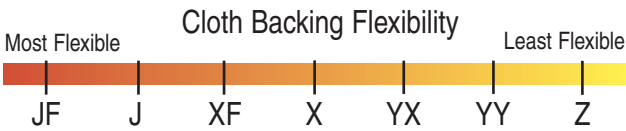
GARNET- A very sharp grain that cuts very quickly when new. Fractures quickly, keeping it sharp. Perfect for sanding wood end grains or for final-finish sanding of wood. Very economical.

CERAMIC - Exceptionally hard, strong, sharp abrasive made with bauxite and other ingredients that are chemically bonded.

ABRASIVE BACKINGS

CLOTH

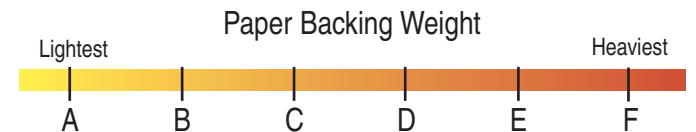
- JF - A light weight very flexible Egyptian cotton cloth
- J - A light weight flexible Egyptian cotton cloth
- XF - A heavy, yet flexible Egyptian cotton cloth
- X - A heavy, stiff Egyptian cotton cloth
- YX - A lighter weight polyester backing
- YY - A very heavy, stiff polyester backing



FIBRE - A very hard, strong, coated abrasive backing material consisting of multiple plies of chemically-impregnated paper. Used primarily for disc products.

PAPER

- A - A very light weight paper - typically for sheet use only or light PSA or hook & loop disc usage
- B - A light weight paper - typically for sheet use only or light PSA or hook & loop disc usage
- C - A medium weight paper - typically for sheet use only or light PSA or hook & loop disc usage
- LATEX - C weight latex infused paper backing. Not for wet use.
- D - A medium to heavy weight paper - typically for sheet use only or PSA or hook & loop disc usage
- E - A heavy weight paper - typically for stroke or wide belt sanding
- F - A very heavy weight paper - typically for stroke or wide belt sanding



AVAILABLE MATERIALS • Cross Reference (see Grit Chart for detailed information)

ALUMINUM OXIDE		SILICON CARBIDE		ALUMINA ZIRCONIA	
CLOTH	PAPER	CLOTH	PAPER	CLOTH	PAPER
CS 308	FP73	CS 321	PS 11	CS 409	PS 21
LS 309	VP73	CS 320	PS 24	CS 411	PS 36 - Stearate
CS 310	PS 10 - Garnet	CS 333	PL 35 - Stearate	CS 416	
CS 311	PS 20	CS 538		CS 565	
LS 312	PS 22	CS 575		CS 570	
LS 313	PS 26			CS 811YY	
CS 326	PS 29				
CS 341	PS 31				
KL 361	PS 33 - Stearate				
KL 371	PS 73W - Stearate				
CS 412	PL 36 - Stearate				
CS 413	VP 73W - Stearate				
CS 561					
CS 710					
				CERAMIC ALUMINUM OXIDE	
				CS 610	
				CS 612	

A-WEIGHT BACKINGS	B-WEIGHT BACKINGS	
PS 10	PS 33 *	
PS 11 *	PS 73W	
PS 12	PL 35	
PS 31 *	VP 73W *	
PL 36		
C-WEIGHT BACKINGS	D-WEIGHT BACKINGS	
PS 11 *	PS 31 *	
PS 31 *	PS 36 *	
PS 33 *		
PS 36 *		
PS 73W / VP 73 LATEX *		
E-WEIGHT BACKINGS	F-WEIGHT BACKINGS	
PS 24	PS 20	PS 22
	PS 21	PS 26
		PS 29

J-FLEX BACKINGS	J-WEIGHT BACKINGS	X-FLEX BACKING	X-WEIGHT BACKINGS	Y-WEIGHT BACKINGS	FIBRE	Z-WEIGHT
LS 309 *	LS 309 *	CS 310 *	CS 310 *	CS 308	CS 561	
LS 312	CS 333 *	CS 710	CS 321 *	CS 311 *	CS 565	
LS 313			CS 333 *	CS 320	CS 570	
CS 333 *			CS 341	CS 326	CS 575	
KL 361			CS 411 *	CS 409	CS 661	
KL 385				CS 411 *		
				CS 610		
				CS 612		
				CS 811YY		

* AVAILABLE IN MORE THAN ONE BACKING.

METAL QUICK GUIDE

FERROUS METALS

- 1.) Cast Iron – contains over 2% carbon, very hard & brittle
- 2.) Carbon Steel – is less than 2% carbon. Includes low carbon, mild/medium carbon, high carbon, tool steel. Will rust or corrode unless painted, plated or galvanized.
- 3.) Stainless Steel – alloyed with the metal chromium and sometimes nickel and other metals. Non-rusting or corroding. Four basic types: austenitic, martensitic, Ferritic and precipitation-hardening (PH).

NON-FERROUS METALS

- 1.) Aluminum – very common, lightweight, strong, various hardnesses available. Used for a wide variety of applications.
- 2.) Copper Alloys – (pure copper, brass, bronze, copper-nickel alloys). Many types and varieties. Non-corroding.
- 3.) Zinc – Lightweight, white-colored metal. Mostly for die cast parts or for galvanizing steel to prevent rusting.
- 4.) Magnesium – Very lightweight, similar to aluminum. Usually cast.
- 5.) Titanium – Space age material for medical, nuclear and aerospace markets. Very lightweight, very strong.
- 6.) Nickel and nickel alloys – Monel is the most common nickel alloy. Similar to stainless steel. Pure nickel is usually alloyed with other metals



BONDED WHEEL SELECTION GUIDE

GRAIN

- A – Aluminum Oxide: for general purpose use on all metals
- C – Silicon Carbide: for use on non-metals and titanium

GRIT

- 24 – Coarse: for fast cutting and maximum wheel life
- 30 – Medium/Coarse: for fast cutting and long wheel life
- 36 – Medium/Coarse: excellent for general purpose cutting
- 46 – Fine/Medium: for a smoother finish and reduced burr
- 60 – Fine: for a burr-free cut
- 80 – Fine: for a burr-free cut

GRADE

- T-V – Hard: for maximum wheel life
- R/S – Medium/Hard: for improved stock removal
- N – Soft: for maximum cut rate

SOFT VS. HARD WHEELS

SOFT

- Shorter wheel life
- High stock removal
- Faster cut
- Large contact areas
- Less bond holding the grain together

HARD

- Longer wheel life
- Lower stock removal
- Slower cut
- Finer finishes
- Small contact areas
- More bond holding the grain together

WHEEL THICKNESS

CUT OFF WHEELS

- 1/32" = .031"
- 1/25" = .040"
- 1/16" = .063"
- 5/64" = .078"
- 3/32" = .094"
- 1/8" = .125"
- 9/64" = .141"

GRINDING DISCS

- 5/32" = .156"
- 1/4" = .250"
- 5/16" = .312"



METAL FINISHES

Stainless Steel Mill Finishes

- #2B A mill cold-rolled finish. No abrasive used.
- #3 A 2B finish processed with #100 AO belt.
- #4 Dairy or Food Service finish. A 2B finish processed with #100 AO belts, followed by #120 AO finish.
- #6 A # 4 finish which has been buffed. A fine satin finish.
- #7 A #4 finish followed by #180 then #240 AO belts, the cut-buffed and finally color-buffed to a reflective finish. A bright finish with some grit lines still visible.
- #8 A #4 finish followed by #180, 240, 320 and 400 AO belts, followed by cut-buffing, followed by color-buffing to a mirror finish. No grit lines available. A convolute or similar wheel may be used instead of the cut/color buffing steps if acceptable.

STANDARD ALUMINUM FINISHES

- M21 Smooth Specular: Belt polished to 320 grit then buffed with Tripoli buffing compound
- M22 Specular Buffing without prior belt polishing

Directional Textured:

- M31 Fine Satin Belt polished to 320 then 400 grit M32 Medium Satin Belts polished to 180 to 320 grit M33 Coarse Satin Belt polished to 80 or 100 grit
- M34 Hand Rubbed Rubbed with medium grades of steel wool or non-woven hand pad material

Standard Finishes on Brass and Bronze

- M21 Smooth Specular Polishing to 320 grit then cut buffing with AO
- M33 Specular M21 plush light buffing
- M31 Fine Satin Polishing with AO or SC to 180 then 240
- M32 Medium Satin Polishing with AO or SC from 120 then 180
- M33 Coarse Satin Polishing with AO or SC from 80 to 120
- M34 Hand Rubbed Rubbed with medium or coarse non-woven pad
- M35 Brushed Wire brush or polish with coarse grit abrasive
- M36 Uniform Polish with 60 or 80 AO or SC

DRESSING/TRUING CONVOLUTE WHEELS

Truing: To make level, balanced or concentric; bring or restore to a desired mechanical accuracy or form. To prevent vibration at high speeds, a diamond or other dressing tool is used to ensure that a non-woven grinding wheel is round and concentric.

Dressing: Removal of undesirable materials from “loaded” non-woven grinding wheels to expose unused abrasive points.

Both the above activities are limited to convolute wheels 6” in diameter and larger.

Truing or Dressing for non-woven/convolute wheels can be accomplished by either Powered Diamond Saw Blades, Coated Abrasive Materials or the use of Custom Metal Tools. The best two options of these for end users will be either the Coated Abrasive Material or the Custom Metal Tool.

The Coated Abrasive Materials option requires inexpensive material with a little technique. A piece of very coarse (24 or 36 grit) coated abrasive material and a heavy solid piece of metal is used. The coated abrasive material is used because of the many cutting points it provides for truing. The heavy piece of metal maintains contact between the non-woven wheel and the coated abrasive material. If a heavy piece of metal is not used, the coated abrasive material will bounce on and off the non-woven wheel and the wheel will not be properly trued. This method works best for the harder density non-woven wheels such as the convolute 9SF for deburring.

The Custom Metal Tool option is the most unique method of all because some operators use many different variations of “truing tools” ranging from a bottle cap to a very elaborate two-handed rake-type tooth tool. The tools are usually very thin to maintain a sharp edge, short, and have a right angle to reduce the change of snagging the tool with the wheel. This method is best suited for the softer non-woven wheels. The advantage of this method is the tool’s ability to quickly cut into the wheel by actually cutting the non-woven fibers.

Profiling, which is often inaccurately referred to as “dressing”, is basically putting a mirror image of the one to be sanded into the face of the sanding wheel. This procedure is not recommended for convolute wheels. There are specialty non-woven wheels made by companies like Bardo-Flex which are specifically designed in the weave to allow profiling.

FLAP DISCS

BONDED

NON-WOVEN

QUICK CHANGE

BELTS

ROLLS

SHEETS

FLAPWHEELS

SPECIALTY

DISCS

SAFETY

POWERTOOLS

REFERENCE

PS 10: Premium Garnet material used in hand, fine finish type sanding, or sanding undercoats of finishing materials. Offers a “softer” cut that leaves a smoother surface. Sheets only.

PS 11: Waterproof Silicon Carbide, A and C-weight papers, resin-resin bonded and available in grits P60 - P2000. Use for sanding of furniture finishes such as varnish, lacquer, shellac, oil, polishing of glass, and in automotive body shops for final color sanding of paint.

PS 20: Primarily for grinding and polishing on metals, but also useful in finish sanding on hardwoods and leather. Closed coat, Aluminum Oxide, resin-resin bonded to heavy F-weight paper. Best for wide belts and stroke sanders.

PS 21: F-weight paper, fully resin-bonded, alumina zirconia grains. Ideal on steel and stainless steel plates. Also for use on stamped parts, final grinding of cast-iron housings, and some woodworking applications

ACT PS 22: For grinding and polishing metals and for finish sanding on hardwoods and leather. F-weight paper backing, Aluminum Oxide closed coat resin-resin bond available in intermediate and wide belts.

ACT PS 24: Fully resin-bonded Silicon Carbide material, E/F-weight paper backing. Works well for non-ferrous metal applications, sanding between coats of paint, lacquer, varnish, etc. in woodworking applications, or for finish sanding of particle board or MDF. Available in wide belts, production belts, or stroke sanding belts.

PS 26: Premium Anti-Static Aluminum Oxide open coat, resin-resin bond, F-weight paper material. Reduces wood loading. Works well in any application where loading is a problem. Belts only.

ACT PS 29: Premium Anti-Static Aluminum Oxide open coat, resin-resin bond, F-weight paper material, with ACT Advanced Coating Technology. Reduces wood loading. Works well in any application where loading is a problem.

PS 31: Aluminum Oxide A, C & D open coat weight paper material. Produces a soft consistent finish at a budget price.

PS 33: Aluminum Oxide B or C-weight paper, resin-resin bond for bare wood sanding, autobody use, sanding of bare metal, primer, primer surfacer, between coats of paint, and sanding of solid surface materials.

PL 35: B-weight Silicon Carbide paper, resin over glue bond, semi-open coat top-coated with Zinc Stearate dry lubricant. Suitable for sanding contoured surfaces or flat surfaces by hand, with sanding blocks, or on vibrating sanders. Ideal for sanding primer, paint, bare metal, and rust, or in woodworking, for sanding sealer, wash coats, bare softwoods and hardwoods, and between coats of furniture finishes.

PL 36: A-weight Aluminum Oxide, semi-open coat, resin over glue bond with Zinc Stearate top coat. Recommended for bare wood, primer, primer surfaces and between coats of paint.

PS 36: These C and D weight papers from KLINGSPOR combine the effectiveness of Alumina Zirconia grains and a stearate coating with the leveling properties of paper. A more consistent finish can be achieved when sanding wood, metal, and various other substances including body fillers. PS 36 is a premium fully resin bonded product.

PS 73 W: Specifically for automotive body work and for applications in the boating industry. Aluminum Oxide resin-bond, B weight paper backing coated with a select mixture of stearates for even less loading than ever before! Also useful on sanding of solid surface materials.

VP 73 W: Enhanced PS73W material with a latex impregnated backing for longer edgewear and life. May be used anywhere the regular PS33 is found including bare wood, composite, marine and autobody. This material is not waterproof.

CS 308: Our YX weight Aluminum Oxide material is a fully resin-bonded product that offers the benefits of a polyester backing in an X-weight. This makes it suitable for use on ferrous or non-ferrous metals and on hardwoods. CS 308 has an extended grit range that allows for coarse to ultra-fine belt sanding and polishing.

LS 309: Aluminum Oxide, fully resin bonded, J or J-flex cotton cloth for use on ferrous or non-ferrous metals and hardwoods where belt conformability to the work piece is required. Narrow belts and some intermediate belts.

CS 310: Aluminum Oxide, X or X-Flex cloth resin-resin bond, closed coat. Suitable for all ferrous metals, hardwoods, leather, aluminum, stainless steel, and most alloys.

ACT CS 311 YX: Aluminum Oxide, Anti-Static, and Y-weight, resin bonded, open coat material for wood sanding operations where clogging or loading is a problem and sanding of soft metals such as brass or bronze.

LS 312: Aluminum Oxide, semi-open coat resin bonded with a special top coating to aid in cooling and to resist loading. Very flexible, J-Flex cloth backing for severely contoured workpieces. Best suited for stainless steel and high alloy steels, other ferrous metals and non-ferrous metals.

LS 313: Aluminum Oxide, semi-open coat, highly flexible J-flex backing, fully resin-bonded with a dry lubricant to reduce heat and clogging on stainless steel, aluminum, and titanium grinding and finishing.

ACT LS 318: Aluminum Oxide, open coat, J-flex backing, fully resin-bonded for furniture and other woodworking particularly pump sleeves or intermediate belts used on soft woods.

CS 320: Silicon Carbide on Y or X-weight polyester backings. Excellent for wet applications on glass, plastic, etc. where strength of polyester would be a benefit.

CS 321: Waterproof Silicon Carbide X-weight cloth resin bonded for grinding and polishing of glass, non-ferrous metals, plastics, stone, marble, grey cast iron, and titanium. Specially treated for use with water or water-based coolants.

CS 326: Aluminum Oxide grain, X-weight polyester backing (YX) with a resin-bonded “agglomerate” surface consisting of clusters of abrasive grains of a given grit size for a very consistent rate of cut and finish when metal grinding and polishing using automatic machinery, particularly on centerless or roll grinding operations.

CS 333: Silicon Carbide, fully resin bonded, X, J, or J-Flex cloth backings for grinding and polishing of non-ferrous metals, grinding and polishing of plastic, glass, rubber, fiberglass, stone, marble, and grey cast iron. Sometimes used for softwood or particleboard sanding.

CS 341: Waterproof Aluminum Oxide fully resin bonded X-weight cloth for metal grinding and polishing where water or soluble oil coolants are used to reduce heat.



KL 361: Aluminum Oxide J-flex cloth backing, resin-resin bonded for general purpose use on all metals or wood.

KL 371: Grits P40 - P400 contain emery grain, a natural form of Aluminum Oxide, glue-glue bond, medium weight cloth similar to X-weight for general purpose grinding and polishing of metals. The lightweight cloth backing is similar to J-weight.

KL 385: Aluminum Oxide, resin-bonded to a very flexible J-flex cotton backing for general clean up and maintenance operations on steel, non-ferrous metals and wood.

CS 409: Alumina Zirconia grain with a multi-bond additive on polyester backing for grinding high alloys such as titanium and metals like stainless steel where heat build-up is a problem.

CS 411 X; CS 411 YX, Y: Alumina Zirconia resin-bonded, with backings available in both X-weight cloth (YX) or polyester cloth in Y-weight (Y) for high pressure, heavy stock removal on all types of metal, especially stainless steel. Polyester backings can be used wet or dry.

CS 412: Aluminum Oxide, resin bonded, Y-weight (Y), polyester-backings for use wet or dry on ferrous or non-ferrous metals. Also suitable for sanding hardwoods.

CS 413: Aluminum Oxide open coat, resin-bonded, polyester backing. Open coat design makes this material suitable for use on soft metals and on wood. Wide belts only.

CS 416: 100% Alumina Zirconia semi-open coat on a heavy or extra heavy polyester backing for high pressure production situations grinding steel, stainless steel, non-ferrous metals, plastic, leather and wood planing.

CS 538: Silicon Carbide, Anti-Static polyester backing and open coat grain coverage make this a preferred product for the particle board and plywood industries. For wide belts only. Also for stainless steel coil processing.

CS 561 fibre disc: Aluminum Oxide, vulcanized fibre backing is tear-resistant and will not fray at the edges like cloth discs.

CS 565 fibre disc: Alumina Zirconia, vulcanized fibre backing is designed for harder, tougher metals, or high production operations.

CS 570 fibre disc: Alumina Zirconia vulcanized fibre backing with a multibond lubricant added to assist in keeping the toughest grinding jobs cool.

CS 575 fibre disc: Silicon Carbide grain on a rigid backing designed for fast removal times and heavy stock removal rates in the fiberglass and plastic industries.

CS 610: Ceramic Aluminum Oxide with multibond lubricant added to enhance the grinding properties and cool the grinding surface. Features a polyester backing that enhances its durability while removing large amounts of stock. Made using CERPASS-XLT™.

CS 612: Ceramic Aluminum Oxide on our heaviest YY polyester backing for use on steels of all types and under high grinding pressure applications. Made using CERPASS-XLT™.

CS 661 fibre disc: Ceramic aluminum oxide vulcanized fibre disc. Faster cutting and longer lasting on hard steels and metals. Lubed for heat control.

CS 710: Heat-treated aluminum oxide, X-Flex Cloth resin-resin bond, closed coat. Suitable for all ferrous metals, hard woods, leather, aluminum, stainless steel and most alloys.

ACT CS 811YY: Alumina Zirconia resin-bonded to an extra heavy polyester backing for severe applications such as rough grinding of ferrous or non-ferrous castings, tubes and rolls, forging and flame-cut parts, tools, turbine blades, and machine components. Performs wet or dry. Excellent edge wear with ACT Advanced Coating Technology.

Fusion Foam Pads: Abrasive slurry poured onto a foam pad with no substrate between provides exceptional conformability and consistency of finish. Can be used wet or dry for finishing applications in automotive and marine body, aerospace, wind energy and many other applications where the finest of finishes is required and performance and longevity is desired. Does particularly well on the fine sanding of the darker solid surface materials like Formica.

FLAPWHEELS

SV 480: Non-woven abrasive mops that are suitable for matte, satin, and final finishing work on all metals. These are 1/4" spindle-mounted wheels.

SM 611 abrasive flapwheel: Constructed of hundreds of resin-bonded cloth Aluminum Oxide abrasive sheets firmly attached to a balanced core. Adapts quickly to contours of the workpiece continuously exposing fresh, sharp grit. Can be used on all metals, plastics and wood. Must be used with SMD 612 plates except on 6 1/2" and 8" wheels.

KM 613 small abrasive flapwheel: A smaller, yet equally powerful version of our standard flapwheel, these flapwheels can be used on portable or off-hand 1/4" power tools to grind, polish, deburr, or finish small and/or hard-to-handle parts.

WSM 617: An abrasive mop wheel, that can for the 1st time be used on an angle grinder, the WSM 617 is for use on both metal and wood. A built-in 5/8-11 hub makes mounting easy and it can be used everywhere from joiners workshops and on cross grained wood to auto body and for office furniture prep and stripping, etc. Grits 40, 60, 80 and 120. 4 1/2 x 2 3/4 x 5/8 - 11.

NCS 600 small finishing flapwheel: Constructed in the same fashion as the larger NCW 600 finishing flapwheel, this smaller 1/4" spindle-mounted version was designed for use on portable machinery.

NCW 600 finishing flapwheel: For smoother, more blended finishes than regular abrasive flapwheels, use KLINGSPOR Finishing Flapwheels. Flaps of non-woven abrasive and resin-bonded abrasive cloth are placed alternately throughout the circumference of the wheel and attach to a solid core for use on wood, metal or plastic without stock removal. The NCW 600 must be used with KLINGSPOR SMD 612 mounting plates.

NSF 600: Non-woven abrasive wheels specifically for matte, satin and final finishing.



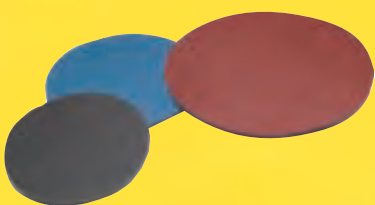
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