

### PRODUCT GROUPS AT A GLANCE



### ABRASIVE FLAP DISCS

The performance of the KLINGSPOR abrasive flap disc far exceeds that of other abrasive products for grinding welds, smoothing out pits, removing slag and flash, and other metal grinding applications.



### ABRASIVE SHEETS

Sheets are one of the most convenient and quick ways to put a final-touch finish on wood, metal, plastics, solid surface materials and more.



#### BONDED ABRASIVES

Continuous innovation and the development of specialized products for all application areas enables KLINGSPOR to offer a range of grinding discs and cut off wheels to satisfy virtually every need.



### ABRASIVE FLAPWHEELS

With different variations of KLINGSPOR
Flapwheels, sanding and finishing of shaped parts, convex or concave, and moldings can be easily accomplished.



### NON-WOVEN ABRASIVE

These products offer a tough, yet forgiving nature that has many benefits in the metal grinding and finishing trades. Non-woven abrasives require less finishing steps than coated abrasive materials.



### **SPECIALTY ABRASIVES**

KLINGSPOR offers a host of specialty grinding, sanding, and finishing products to assist in the overall completion of your workpieces. Some items include, spiral bands, cartridge rolls, mounted points, cross pads and wire wheels.



#### QUICK CHANGE DISCS

These 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.



### ABRASIVE DISCS

Ideal for either quick grinding use or production applications, KLINGSPOR fiber discs offer excellent grinding performance on most metals and steels. The heavy vulcanized fiber backing gives a firm platform for extended life and aggressive action when needed.



### ABRASIVE BELTS

KLINGSPOR abrasive belts are available in various sizes and grades to meet all sanding and grinding requirements for a wide range of materials and applications.



### 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.



### ABRASIVE ROLLS

KLINGSPOR rolls for hand sanding or use with hand-held machines are available in a number of special grades designed for a wide variety of materials.



#### **POWER TOOLS**

Dynabrade Power Tools offer capability in virtually every sanding, grinding, or finishing step.



#### 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.

#### **KLINGSPOR** literature



Woodworking Price Guide



Automotive Supplement Guide



Safety Products



Dynabrade Power Tools



Floor Sanding Guide



klingspor.com

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# **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,  $6^{\circ}$  convex shape, or  $12^{\circ}$  convex shape. Flat discs are best suited for use on flat surfaces and on edges. The  $6^{\circ}$  convex shape allows for use on flat or slightly contoured surfaces, while the  $12^{\circ}$  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 |
|-------|---------------------|---------|----------|---------|---------|---------|
| 41/2" | Box Qty 10 per each | 12,000  | \$5.63   | \$5.63  | \$5.63  | \$5.63  |



#### CMT 728 - ALUMINA ZIRCONIA



| Size  |                     | Max RPM | 120 Grit | 80 Grit | 60 Grit | 40 Grit |
|-------|---------------------|---------|----------|---------|---------|---------|
| 41/2" | Box Qty 10 per each | 12,000  | \$5.63   | \$5.63  | \$5.63  | \$5.63  |



#### CMT 730 - MULTIBOND ALUMINA ZIRCONIA



| MOETIBOTE ALGIMITA ENTOGRA |       |                     | 111101  | LIT L/1011 |         |         |         |
|----------------------------|-------|---------------------|---------|------------|---------|---------|---------|
|                            | Size  |                     | Max RPM | 120 Grit   | 80 Grit | 60 Grit | 40 Grit |
|                            | 41/2" | Box Qty 10 per each | 12,000  | \$6.53     | \$6.53  | \$6.53  | \$6.53  |



#### CMT 800 - NON WOVEN



| NON WOVEN |                     |         | FRICE FER EACH |         |           |
|-----------|---------------------|---------|----------------|---------|-----------|
| Size      |                     | Max RPM | Coarse         | Medium  | Very Fine |
| 41/2"     | Box Oty 10 per each | 12.000  | \$10.60        | \$10.60 | \$10.60   |



41/2" BACKING PLATE: ......\$5.73



PRICE PER EACH

PRICE PER EACH

PRICE PER EACH

DDICE DED EACH



### 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 |
|-------|-----------------|------------|
| 41/2" | 80, 60, 40      | \$6.20     |



#### **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 |  |
|-------|-----------------|------------|--|
| 41/2" | 80, 60, 40      | \$6.20     |  |



#### **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 |
|-------|-------------------------|------------|
| 41/2" | 120, 80, 60, 50, 40, 36 | \$7.13     |
| 6"    | 80, 60, 40              | \$11.22    |
| 7"    | 120, 80, 60, 50, 40, 36 | \$13.24    |



#### **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     | \$6.72     |
| 41/2" | 120, 80, 60, 50, 40, 36 | \$7.13     |
| 7"    | 120, 80, 60, 50, 40, 36 | \$13.24    |



### 5/8"-11 hubs \$2.08 each

#### **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 |
|-------|---------------------|------------|
| 41/2" | 120, 80, 60, 40, 36 | \$7.13     |
| 7"    | 120, 80, 60, 50, 36 | \$13.24    |

**MAXIMUM RPM'S:** 4": 15.300 41/2": 13.300 5": 12,000 7": 8.500



#### **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.

| FLAT |
|------|

| Size  | Available Grits             | Price Each |
|-------|-----------------------------|------------|
| 41/2" | 120, 80, 60, 40, 36, 24     | \$7.13     |
| 7"    | 120, 80, 60, 50, 40, 36, 24 | \$13.24    |

5/8"-11 hubs \$2.08 each



#### **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 6° convex angle. The 630 is best-suited for cooler edge grinding of stainless steel. Sold in boxes of 10.



| Size  | Available Grits     | Price Each |
|-------|---------------------|------------|
| 41/2" | 120, 80, 60, 40, 36 | \$8.15     |
| 5"    | 120, 80, 60, 40, 36 | \$10.30    |
| 7"    | 80, 60, 40, 36      | \$14.28    |



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

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. The center hole of the disc is threaded with the proper 5/8"- 11 hole and threading dimensions. Sold in boxes of 10.



| Size         | Available Grits        | Price Each |  |  |
|--------------|------------------------|------------|--|--|
| 41/2 5/8"-11 | 80, 60, 50, 40, 36, 24 | \$7.13     |  |  |



#### 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.



| Size  | Available Grits | Price Each |  |  |
|-------|-----------------|------------|--|--|
| 41/2" | 80, 60, 40, 36  | \$8.15     |  |  |



5/8"-11 hubs \$2.08 each

#### **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.



| Size  | Available Grits | Price Each |  |
|-------|-----------------|------------|--|
| 41/2" | 80, 60, 40      | \$8.15     |  |

Price Each \$13.87



#### **SMT 696 SPECIAL**

Made from a premium ceramic aluminum oxide grain with a special multi-bond lubricant. At an aggressive 6° angle this SMT is best suited for grind weld seams and edge grinding on harder metals such as stainless steel and other alloys. Sold in boxes of 10.

| 6°ANGLE |
|---------|

| Size                            | Available Grits | Price Each |
|---------------------------------|-----------------|------------|
| 4 <sup>1</sup> / <sub>2</sub> " | 40, 60, 80      | \$9.17     |
| 7"                              | 40, 80          | 15.29      |



#### 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.

|          | Size  | Available Grits           |
|----------|-------|---------------------------|
| 12 ANGLE | 41/2" | Coarse, Medium, Very Fine |
| 12 ANGLE |       | PLEASE SPECIFY            |



#### SMT 850 FLAP DISC

The SMT 850 is the perfect combination of non-woven web and coated abrasives for improved stock removal, finish, and convenience. With a lubricated aluminum oxide coated abrasive and a 3 different grades of non-woven materials, you'll get exceptional removal rates, yet you'll also see a high quality surface finish. This reduces machining times and further processing steps. Try this Multi-Purpose abrasive flap disc today. Sold in boxes of 5.



| Size  | Available Grits                                    | Price Each |
|-------|--|------------|
| 41/2" | 60 Grit/Coarse, 80 Grit/Medium, 120 Grit/Very Fine | \$15.99    |

**PLEASE SPECIFY** 



5/8"-11 hubs \$2.08 each

#### 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.



| Size  | Price Each |
|-------|------------|
| 41/2" | \$15.84    |

### 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 Qty | Max RPM | 80 and Finer | 60 Grit | 50 Grit | 40 Grit | 36 Grit | 24 Grit | 16 Grit |
|---|---------|---------|--------------|---------|---------|---------|---------|---------|---------|
| 4" x 5/8"   | 25      | 14,400  | \$21.29      | \$23.16 | \$24.25 | \$25.32 | \$26.07 | \$26.80 | \$33.43 |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>7</sup> / <sub>8</sub> " | 25      | 13,300  | 23.48        | 25.32   | 26.07   | 27.21   | 27.90   | 29.01   | 36.35   |
| 5" x <sup>7</sup> / <sub>8</sub> "                              | 25      | 12,200  | 26.07        | 27.21   | 29.01   | 30.11   | 30.84   | 31.94   | 41.13   |
| 7" x <sup>7</sup> / <sub>8</sub> "                              | 25      | 8,600   | 41.13        | 43.70   | 44.76   | 47.36   | 48.47   | 50.30   | 63.53   |
| 9" x <sup>7</sup> / <sub>8</sub> "                              | 25      | 6,600   | 53.99        | 57.65   | 60.60   | 62.44   | 64.25   | 66.11   | 84.83   |

#### 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 Qty | Max RPM | 100/80 Grit | 60 Grit | 50 Grit | 36 Grit | 24 Grit |
|---|---------|---------|-------------|---------|---------|---------|---------|
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>7</sup> / <sub>8</sub> " | 25      | 13,300  | \$30.11     | \$32.07 | \$33.27 | \$36.35 | \$38.18 |
| 5" x <sup>7</sup> / <sub>8</sub> "                              | 25      | 12,200  | 38.18       | 40.03   | 41.87   | 45.54   | 47.75   |
| 7" x <sup>7</sup> / <sub>8</sub> "                              | 25      | 8,600   | 53.24       | 56.17   | 57.65   | 62.81   | 65.00   |
| 9" x <sup>7</sup> / <sub>8</sub> "                              | 25      | 6,600   | 95.47       | 100.98  | 102.83  | 113.82  | 116.03  |

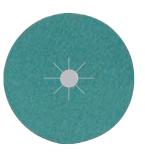


#### CS 570 LUBRICATED ALUMINA ZIRCONIA FIBRE DISCS

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 Qty | Max RPM | 120/100/80 Grit | 60 Grit | 50 Grit | 36 Grit | 24 Grit |
|---|---------|---------|-----------------|---------|---------|---------|---------|
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>7</sup> / <sub>8</sub> " | 25      | 13,300  | \$30.11         | \$32.07 | \$33.27 | \$36.35 | \$38.18 |
| 5" x <sup>7</sup> / <sub>8</sub> "                              | 25      | 12,200  | 38.18           | 40.03   | 41.87   | 45.54   | 47.75   |
| 7" x <sup>7</sup> / <sub>8</sub> "                              | 25      | 8,600   | 53.24           | 56.17   | 57.65   | 62.81   | 65.00   |



#### FS 966 LUBRICATED CERAMIC FIBRE DISCS

For the optimum in life and grinding consistency, these 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. All Increased grain adhesion of edgewear.

| Diameter  | Box Qty | Max RPM | 80 Grit | 60 Grit | 50 Grit | 40 Grit | 36 Grit | 24 Grit |
|---|---------|---------|---------|---------|---------|---------|---------|---------|
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>7</sup> / <sub>8</sub> " | 25      | 13,300  | 41.83   | 43.92   | \$47.44 | 49.43   | \$54.37 | \$62.74 |
| 5" x <sup>7</sup> / <sub>8</sub> "                              | 25      | 12,200  | 56.54   | 59.37   | 64.13   | 65.78   | 72.37   | 83.34   |
| 7" x <sup>7</sup> / <sub>8</sub> "                              | 25      | 8,600   | 90.55   | 95.08   | 102.69  | 108.47  | 119.31  | 137.05  |





#### 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. NOTE: Must be used with backup pad.

| Diameter | Box Qty | 60 Grit | 36 Grit | 24 Grit       | 16 Grit |
|----------|---------|---------|---------|---------------|---------|
| 4-1/2"   | 5       | \$22.04 | \$22.87 | \$23.42       | \$24.80 |
| 5"       | 5       | 24.97   | 25.24   | 25.90         | 27.18   |
| 7"       | 5       | 32.24   | 32.52   | 32.79         | 33.34   |
|          |         |         | F       | PRICE PER BOX |         |

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 <sup>1</sup> / <sub>2</sub> " | 25      | 13,300  | \$40.03   | \$41.87 | \$42.56 | \$43.70 | \$44.44 | \$45.54 | \$52.87 |
| 5"                              | 25      | 12,200  | 42.56     | 43.70   | 45.54   | 46.64   | 47.36   | 48.47   | 57.65   |
| 7"                              | 25      | 8,600   | 57.65     | 60.22   | 61.33   | 63.91   | 65.00   | 66.84   | 80.07   |
| 9"                              | 25      | 6,600   | 70.51     | 74.17   | 77.11   | 78.97   | 80.81   | 82.62   | 101.37  |

#### 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 |
|----------|---------|---------|---------|---------|---------|---------|---------|
| 41/2"    | 25      | 13,300  | \$46.64 | \$48.47 | \$49.94 | \$52.87 | \$54.72 |
| 5"       | 25      | 12,200  | 54.72   | 56.56   | 58.38   | 62.05   | 64.25   |
| 7"       | 25      | 8,600   | 69.76   | 72.73   | 74.17   | 79.33   | 81.53   |
| 9"       | 25      | 6,600   | 111.98  | 117.51  |         | 130.35  | 132.56  |

#### FS 966 LUBRICATED CERAMIC FIBRE DISCS

| Diameter                             | Box Qty | Max RPM | 80 Grit | 60 Grit | 50 Grit | 40 Grit | 36 Grit | 24 Grit |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| $4^{1}/_{2}^{11} \times 7/_{8}^{11}$ | 25      | 13,300  | \$58.56 | \$60.64 | \$64.11 | \$66.15 | \$71.07 | \$79.46 |
| 5" x <sup>7</sup> / <sub>8</sub> "   | 25      | 12,200  | 76.09   | 76.09   | 80.85   | 82.51   | 88.97   | 100.05  |
| 7" x <sup>7</sup> / <sub>8</sub> "   | 25      | 8,600   | 107.27  | 111.80  | 119.45  | 125.19  | 136.02  | 153.78  |





# **Quick Lock Backing Pads**

| Dian  | neter       | Item # | PRICE PER PAD |
|-------|-------------|--------|---------------|
| 41/2" |             | BPQ001 | \$47.92       |
| 41/2" | Low Profile | BPQ002 | \$47.92       |
| 5"    |             | BPQ003 | \$47.92       |
| 5"    | Low Profile | BPQ004 | \$47.92       |
| 7"    | Soft        | BPQ005 | \$62.79       |
| 7"    | Medium      | BPQ006 | \$53.94       |
| 7"    | Firm        | BPQ007 | \$62.79       |
| 9"    | Medium      | BPQ008 | \$75.07       |

Phenolic Backing Pad PRICE PER PAD

| Diameter | Item #  | Description                 | Price  |
|----------|---------|-----------------------------|--------|
| 4 1/2"   | FBP-4.5 | 4 1/2" Phenolic Backing Pad | \$5.49 |
| 5"       | FBP-5   | 5" Phenolic Backing Pad     | 5.49   |
| 7"       | FBP-7   | 7" Phenolic Backing Pad     | 7.33   |

### Fibre Disc Backing Pads

| Diame | ter         | Item # | PRICE PER PAD |
|-------|-------------|--------|---------------|
| 41/2" | Standard    | BP001  | \$20.29       |
| 41/2" | Spiral Cool | BPS012 | \$35.27       |
| 5"    | Standard    | BP002  | \$23.96       |
| 5"    | Spiral Cool | BPS011 | \$42.57       |
| 7"    | Standard    | BP003  | \$35.76       |
| 7"    | Spiral Cool | BPS010 | \$51.54       |
| 9"    | Standard    | BP004  | \$46.33       |
|       |             |        |               |

**BP Series Rubber Plates** Standard Quick Lock Low Profile







## **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.



### Ultra-Thin Cut-off Wheels

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      | 13,300  | A46TZ1001.616F | \$3.46         |
| $4^{1}/_{2}$ " $\chi$ $^{1}/_{16}$ " $\chi$ $^{7}/_{8}$ " TYPE 27                                | A46TZ | 25      | 13,300  | A46TZ1151.622D | 3.57           |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>16</sub> " x <sup>7</sup> / <sub>8</sub> " | A46TZ | 25      | 13,300  | A46TZ1151.622F | 3.57           |
| 5" x <sup>1</sup> / <sub>16</sub> " x <sup>7</sup> / <sub>8</sub> "                              | A46TZ | 25      | 12,200  | A46TZ1251.622F | 4.12           |
| 6" x <sup>1</sup> / <sub>16</sub> " x <sup>7</sup> / <sub>8</sub> "                              | A46TZ | 25      | 12,200  | A46TZ1501.622F | 4.37           |
| $6" x ^{1}/_{16}" x ^{7}/_{8}"$ TYPE 27  | A46TZ | 25      | 12,200  | A46TZ1501.622D | 4.37           |
| 7" x <sup>1</sup> / <sub>16</sub> " x <sup>7</sup> / <sub>8</sub> "                              | A46TZ | 25      | 8,500   | A46TZ1781.622F | 5.45           |
| <b>7" X</b> <sup>1</sup> / <sub>16</sub> <b>" X</b> <sup>7</sup> / <sub>8</sub> <b>"</b> TYPE 27 | A46TZ | 25      | 8,500   | A46TZ1781.622D | 5.45           |
| 9" x <sup>5</sup> / <sub>64</sub> " x <sup>7</sup> / <sub>8</sub> "                              | A46TZ | 25      | 6,600   | A46TZ2301.922F | 7.03           |
| $9" \ x^{5/64}" \ x^{7/8}" \ \text{TYPE 27}$   | A46TZ | 25      | 6,600   | A46TZ2301.922D | 7.03           |



#### A 60 TZ Special Stainless Steel, Stainless Steel Sheets and Container Construction



| Size  | Grit  | Box Qty | Max RPM | Item #         | Price Per Disc |
|---|-------|---------|---------|----------------|----------------|
| 4" x .045" x <sup>5</sup> / <sub>8</sub> "                                      | A60TZ | 25      | 15,300  | A60TZ1001.016F | \$3.45         |
| 4 <sup>1</sup> / <sub>2</sub> " x .045" x <sup>7</sup> / <sub>8</sub> " TYPE 27 | A60TZ | 25      | 13,300  | A60TZ1151.022D | 3.57           |
| 5" x .045" x <sup>7</sup> /8" TYPE 27   | A60TZ | 25      | 12,200  | A60TZ1251.022D | 4.01           |
| 4 <sup>1</sup> / <sub>2</sub> " x .045" x <sup>7</sup> / <sub>8</sub> "         | A60TZ | 25      | 13,300  | A60TZ1151.022F | 3.57           |
| 5" x .045" x <sup>7</sup> / <sub>8</sub> "                                      | A60TZ | 25      | 12,200  | A60TZ1251.022F | 4.01           |



### **Ultra-Thin Cut-off Wheels**



A 60 N Supra Non-Ferrous Metals, Aluminum, Copper and Brass. **Soft Structure Prevents Loading** 

| Size  | Grit | Box Qty | Max RPM | Item #        | Price Per Disc |
|---|------|---------|---------|---------------|----------------|
| 4 <sup>1</sup> / <sub>2</sub> " x .045" x <sup>7</sup> / <sub>8</sub> " | A60N | 25      | 13,300  | A60N1151.022F | \$3.95         |
| 5" x .045" x <sup>7</sup> / <sub>8</sub> "                              | A60N | 25      | 12,200  | A60N1251.022F | 4.36           |



#### A 60 S Stainless Steel, Stainless Steel Sheets and Container Construction

| Size                   | Grit | Box Qty | Max RPM | Item #  | Price Per Disc |
|------------------------|------|---------|---------|---------|----------------|
| 6 x .045 x 7/8 TYPE 27 | A60S | 25      | 10,000  | CFX0175 | 5.30           |
| 6 x .045 x 7/8" Flat   | A60S | 25      | 10,000  | CFX0170 | 5.30           |



#### A 80 TZ Special Stainless Steel, Stainless Steel Sheets, **Container Construction**

| Size   | Grit  | Box Qty | Max RPM | Item #         | Price Per Disc |
|--|-------|---------|---------|----------------|----------------|
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>32</sub> " x <sup>7</sup> / <sub>8</sub> " TYPE 27 | A80TZ | 25      | 13,300  | A80TZ1150.822D | \$3.95         |
| 5" x <sup>1</sup> / <sub>32</sub> " x <sup>7</sup> / <sub>8</sub> " TYPE 27                              | A80TZ | 25      | 12,200  | A80TZ1250.822D | 4.36           |

"Extra Cut" Small Cutting Wheels

THICKNESS TOLERANCES WILL NOT EXCEED +/-.015"



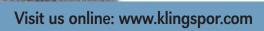
MAX R.PM 25,000

| Size                                       | Grit | Box Quantity | Max RPM | Item # | Price Per Disc |
|--|------|--------------|---------|--------|----------------|
| 2" x 1/8" x 3/8"                           | A60T | 10           | 30,000  | EC1191 | \$2.54         |
| $3" \times .040" \times ^{1}/_{4}"$        | A60S | 10           | 25,000  | EC0105 | 2.10           |
| 3" x .040" x <sup>3</sup> / <sub>8</sub> " | A60S | 10           | 25,000  | EC0110 | 2.10           |
| $3" \times 1/16" \times 1/4"$              | A36S | 10           | 25,000  | EC0120 | 2.10           |
| 3" x 1/16" x 1/4"                          | A60S | 10           | 25,000  | EC0130 | 2.10           |
| $3'' \times 1/16'' \times 3/8''$           | A36S | 10           | 25,000  | EC0140 | 2.10           |
| 3" x 1/16" x 3/8"                          | A60S | 10           | 25,000  | EC0150 | 2.10           |
| 3" x 3/32" x 1/4"                          | A36S | 10           | 25,000  | EC0160 | 2.10           |
| 3" x 3/32" x 3/8"                          | A36S | 10           | 22,000  | EC0170 | 2.10           |
| $4" \times .040" \times ^{1}/_{4}"$        | A60S | 10           | 22,000  | EC0180 | 2.47           |
| 4" x .040" x <sup>3</sup> / <sub>8</sub> " | A60S | 10           | 22,000  | EC0190 | 2.47           |
| 4" x 1/16" x 1/4"                          | A36S | 10           | 19,000  | EC0230 | 2.47           |
| 4" x 1/16" x 1/4"                          | A60S | 10           | 19,000  | EC0240 | 2.54           |
| $4" x ^{1}/_{16}" x ^{3}/_{8}"$            | A36S | 10           | 19,000  | EC0250 | 2.54           |
| $4" \times 1/16" \times 3/8"$              | A60S | 10           | 19,000  | EC0260 | 2.54           |
| 4" x 3/32" x 3/8"                          | A36S | 10           | 19,000  | EC0370 | 2.54           |



**ECARBORM-50P** \$10.52

PRICE PER MANDREL





### Assorted Cut Off Wheels For Hand-held Machines

#### **CUT OFF WHEELS - TYPE 1 FLAT**

A 24 E General purpose cutting of most metals

| Size   | Grit     | Box Quantity | Max RPM | Item #        | Price Per Disc |
|--|----------|--------------|---------|---------------|----------------|
| 7" x <sup>1</sup> / <sub>8</sub> " x <sup>7</sup> / <sub>8</sub> " | A24Extra | 25           | 8500    | A24E1783.022F | \$3.33         |
| 7" x <sup>1</sup> / <sub>8</sub> " x <sup>7</sup> / <sub>8</sub> " | C24Extra | 25           | 8500    | C24E1783.022F | 3.47           |
| 9" x <sup>1</sup> / <sub>8</sub> " x <sup>7</sup> / <sub>8</sub> " | A24Extra | 25           | 6600    | A24E2303.022F | 4.91           |
| 9" x <sup>1</sup> / <sub>8</sub> " x <sup>7</sup> / <sub>8</sub> " | C24Extra | 25           | 6600    | C24E2303.022F | 5.03           |



#### ■ CUT OFF WHEELS - TYPE 27 DEPRESSED CENTER

C 24 E

|  |          |              | _       |               |                |
|--|----------|--------------|---------|---------------|----------------|
| Size   | Grit     | Box Quantity | Max RPM | Item #        | Price Per Disc |
| 4" x <sup>3</sup> / <sub>32</sub> " x <sup>5</sup> / <sub>8</sub> "                              | A24Extra | 25           | 15300   | A24E1002.516D | \$2.33         |
| 4" x <sup>3</sup> / <sub>32</sub> " x <sup>5</sup> / <sub>8</sub> "                              | C24Extra | 25           | 15300   | C24E1002.516D | 2.47           |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>3</sup> / <sub>32</sub> " x <sup>7</sup> / <sub>8</sub> " | A24Extra | 25           | 13300   | A24E1152.522D | 2.41           |
| $4^{1}/_{2}$ " x $^{3}/_{32}$ " x $^{5}/_{8}$ "-11 hub   | A24Extra | 10           | 13300   | A24E1152.522A | 4.11           |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>3</sup> / <sub>32</sub> " x <sup>7</sup> / <sub>8</sub> " | C24Extra | 25           | 13300   | C24E1152.522D | 2.54           |
| $4^{1}/2$ " x $3/32$ " x $5/8$ "-11 hub  | C24Extra | 10           | 13300   | C24E1152.522A | 4.28           |
| 5" x <sup>3</sup> / <sub>32</sub> " x <sup>7</sup> / <sub>8</sub> "                              | A24Extra | 25           | 12200   | A24E1252.522D | 2.62           |
| 5" x <sup>3</sup> / <sub>32</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub                       | A24Extra | 10           | 12200   | A24E1252.522A | 4.33           |
| 7" x 1/8" x 7/8"   | A24Extra | 25           | 8500    | A24E1783.022D | 3.32           |
| 7" $x^{1/8}$ " $x^{5/8}$ "-11 hub  | A24Extra | 10           | 8500    | A24E1783.022A | 5.03           |
| 7" x 1/8" x 7/8"   | C24Extra | 25           | 8500    | C24E1783.022D | 3.47           |
| 7" $x \frac{1}{8}$ " $x \frac{5}{8}$ "-11 hub  | C24Extra | 10           | 8500    | C24E1783.022A | 5.18           |
| 9" x 1/8" x 7/8"   | A24Extra | 25           | 6600    | A24E2303.022D | 4.90           |
| 9" x $^{1}/_{8}$ " x $^{5}/_{8}$ "-11 hub  | A24Extra | 10           | 6600    | A24E2303.022A | 6.60           |
| 9" x 1/8" x 7/8"   | C24Extra | 25           | 6600    | C24E2303.022D | 5.03           |
| 9" x $^{1}/_{8}$ " x $^{5}/_{8}$ "-11 hub  | C24Extra | 10           | 6600    | C24E2303.022A | 6.72           |



### A 24 R Supra

Steel, Structural Steel, Tool Steel, Sheet Steel

| Size  | Grit | Box Qty | Max RPM | Item #        | Price Per Disc |
|---|------|---------|---------|---------------|----------------|
| 4" x <sup>3</sup> / <sub>32</sub> " x <sup>5</sup> / <sub>8</sub> "                                     | A24R | 25      | 15300   | A24R1002.516D | \$2.47         |
| $4^{1/2}$ x $^{3/32}$ x $^{7/8}$  | A24R | 25      | 13300   | A24R1152.522D | 2.62           |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>3</sup> / <sub>32</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub | A24R | 10      | 13300   | A24R1152.522A | 4.33           |
| 5" x 3/32 x 7/8"  | A24R | 25      | 12200   | A24R1252.522D | 2.97           |
| 5" x <sup>3</sup> / <sub>32</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub                              | A24R | 10      | 12200   | A24R1252.522A | 4.67           |
| 7" x <sup>1</sup> / <sub>8</sub> " x <sup>7</sup> / <sub>8</sub> "                                      | A24R | 25      | 8500    | A24R1783.022D | 3.68           |
| 7" x <sup>1</sup> / <sub>8</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub                               | A24R | 10      | 8500    | A24R1783.022A | 5.38           |
| 9" x <sup>1</sup> / <sub>8</sub> " x <sup>7</sup> / <sub>8</sub> "                                      | A24R | 25      | 6600    | A24R2303.022D | 6.24           |
| 9" x <sup>1</sup> / <sub>8</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub                               | A24R | 10      | 6600    | A24R2303.022A | 7.92           |



| Size   | Grit | Box Qty | Max RPM | Item #        | Price Per Disc |
|--|------|---------|---------|---------------|----------------|
| 4" x <sup>3</sup> / <sub>32</sub> " x <sup>5</sup> / <sub>8</sub> "                              | A24R | 25      | 15300   | A24R1002.516F | \$2.47         |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>3</sup> / <sub>32</sub> " x <sup>7</sup> / <sub>8</sub> " | A24R | 25      | 13300   | A24R1152.522F | 2.62           |
| 5" x <sup>3</sup> / <sub>32</sub> " x <sup>7</sup> / <sub>8</sub> "                              | A24R | 25      | 12200   | A24R1252.522F | 2.97           |
| 6" x <sup>3</sup> / <sub>32</sub> " x <sup>7</sup> / <sub>8</sub> "                              | A24R | 25      | 10200   | A24R1502.522F | 3.53           |
| 7" x <sup>1</sup> / <sub>8</sub> " x <sup>7</sup> / <sub>8</sub> "                               | A24R | 25      | 8500    | A24R1783.022F | 3.68           |
| 9" x 1/8" x 7/8"   | A24R | 25      | 6600    | A24R2303.022F | 6.24           |





### Assorted Cut Off Wheels For Hand-held Machines



| Size  | Grit | Box Qty | Max RPM | Item #        | Price Per Disc |
|---|------|---------|---------|---------------|----------------|
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>3</sup> / <sub>32</sub> " x <sup>7</sup> / <sub>8</sub> "        | A24N | 25      | 13300   | A24N1152.522D | \$2.77         |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>3</sup> / <sub>32</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub | A24N | 10      | 13300   | A24N1152.522A | 4.45           |
| 5" x <sup>3</sup> / <sub>32</sub> " x <sup>7</sup> / <sub>8</sub> "                                     | A24N | 25      | 12200   | A24N1252.522D | 3.13           |
| 5" x <sup>3</sup> / <sub>32</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub                              | A24N | 10      | 12200   | A24N1252.522A | 4.81           |
| 7" x 1/8" x 7/8"  | A24N | 25      | 8500    | A24N1783.022D | 4.03           |
| 7" x 1/8" x 5/8"-11 hub   | A24N | 10      | 8500    | A24N1783.022A | 5.73           |
| 9" x 1/8" x 7/8"  | A24N | 25      | 6600    | A24N2303.022D | 6.72           |
| 9" x <sup>1</sup> / <sub>8</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub                               | A24N | 10      | 6600    | A24N2303.022A | 8.44           |
| Size  | Grit | Box Oty | Max RPM | Item #        | Price Per Disc |

8500

6600

A24N1783.022F

A24N2303.022F

\$4.03

6.72

| A 24 N Supra               |  |  |  |  |  |  |
|----------------------------|--|--|--|--|--|--|
| Stainless Steel,           |  |  |  |  |  |  |
| Non-Alloy Stainless Steel, |  |  |  |  |  |  |
| High Alloy Stainless Steel |  |  |  |  |  |  |
|                            |  |  |  |  |  |  |





7" x 1/8" x 7/8"

9" x 1/8" x 7/8"

A24N

A24N

25

25

| Size  | Grit | Box Qty | Max RPM | Item #        | Price Per Disc |
|---|------|---------|---------|---------------|----------------|
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>3</sup> / <sub>32</sub> " x <sup>7</sup> / <sub>8</sub> "        | A46N | 25      | 13300   | A46N1152.522D | \$2.77         |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>3</sup> / <sub>32</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub | A46N | 10      | 13300   | A46N1152.522A | 4.45           |
| 5" x <sup>3</sup> / <sub>32</sub> " x <sup>7</sup> / <sub>8</sub> "                                     | A46N | 25      | 12200   | A46N1252.522D | 3.13           |
| 5" x $^{3}/_{32}$ " x $^{5}/_{8}$ "-11 hub  | A46N | 10      | 12200   | A46N1252.522A | 4.81           |

### A 46 N Supra



| Size             | Grit | Box Qty | Max RPM | Item #        | Price Per Disc |
|------------------|------|---------|---------|---------------|----------------|
| 7" x 1/8" x 7/8" | A46N | 25      | 8500    | A46N1783.022F | \$4.03         |
| 9" x 1/8" x 7/8" | A46N | 25      | 6600    | A46N2303.022F | 6.72           |



| Size  | Grit | Box Qty | Max RPM | Item #        | Price Per Disc |
|---|------|---------|---------|---------------|----------------|
| 4" x <sup>3</sup> / <sub>32</sub> " x <sup>5</sup> / <sub>8</sub> "                                     | C24R | 25      | 15300   | C24R1002.516D | \$2.62         |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>3</sup> / <sub>32</sub> " x <sup>7</sup> / <sub>8</sub> "        | C24R | 25      | 13300   | C24R1152.522D | 2.77           |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>3</sup> / <sub>32</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub | C24R | 10      | 13300   | C24R1152.522A | 4.45           |
| 5" x <sup>3</sup> / <sub>32</sub> " x <sup>7</sup> / <sub>8</sub> "                                     | C24R | 25      | 12200   | C24R1252.522D | 3.32           |
| 5" x <sup>3</sup> / <sub>32</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub                              | C24R | 10      | 12200   | C24R1252.522A | 5.03           |

#### C 24 R Supra Stone, Marble





| Size   | Grit  | Box Qty | Max RPM | Item #         | Price Per Disc |
|--|-------|---------|---------|----------------|----------------|
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>5</sup> / <sub>64</sub> " x <sup>7</sup> / <sub>8</sub> " | A36TZ | 25      | 13300   | A36TZ1152.022F | \$3.92         |
| 5" x <sup>5</sup> / <sub>64</sub> " x <sup>7</sup> / <sub>8</sub> "                              | A36TZ | 25      | 12200   | A36TZ1252.022F | 4.05           |
| 7" x <sup>5</sup> / <sub>64</sub> " x <sup>7</sup> / <sub>8</sub> "                              | A36TZ | 25      | 8500    | A36TZ1782.022F | 6.18           |
| 9" x <sup>5</sup> /64" x <sup>7</sup> /8"  | A36TZ | 25      | 6600    | A36TZ2302.022F | 8.04           |

#### A 36 TZ Special Sheet Steel,

Stainless Steel, **High Alloy Steel** 



### **Cut Off Wheels For Portable Machines**

A 24 R Special Steel, Structural Steel, Tool Steel, Sheet Steel

| Size  |   | Grit | Box Qty | Max RPM | Item #        | Price Per Disc |
|-------|---|------|---------|---------|---------------|----------------|
| 12" > | ( <sup>9</sup> / <sub>64</sub> " <b>X</b> <sup>7</sup> / <sub>8</sub> " | A24R | 10      | 5100    | A24R3003.522F | 9.35           |
| 12" > | ′ <sup>9</sup> / <sub>64</sub> " x 1"                                   | A24R | 10      | 5100    | A24R3003.525F | 9.35           |



A 24 SZ Special

Railroad Tracks

| Size                                      | Grit  | Box Qty | Max RPM | Item #         | Price Per Disc |
|---|-------|---------|---------|----------------|----------------|
| 14" x <sup>5</sup> / <sub>32</sub> " x 1" | A24SZ | 10      | 5500    | A24SZ3504.025F | \$14.22        |



A 24 SX Special

Railroad Tracks

| Size                                      | Grit  | Box Qty | Max RPM | Item #         | Price Per Disc |
|---|-------|---------|---------|----------------|----------------|
| 14" x <sup>5</sup> / <sub>32</sub> " x 1" | A24SX | 10      | 5500    | A24SX3504.025F | \$15.16        |
| 16" x <sup>5</sup> / <sub>32</sub> " x 1" | A24SX | 10      | 4800    | A24SX4004.025F | 24.52          |



C 24 RA Special **Asphalt** 

| OIZC   | Gilt  | DOX GLY | WIGA III W | item #         | THE TELDISC |
|--|-------|---------|------------|----------------|-------------|
| 12" x <sup>9</sup> / <sub>64</sub> " x 20mm                          | C24RA | 10      | 5100       | C24RA3003.520F | \$9.77      |
| 12" x <sup>9</sup> / <sub>64</sub> " x <sup>7</sup> / <sub>8</sub> " | C24RA | 10      | 5100       | C24RA3003.522F | 9.77        |
| 16" x <sup>3</sup> / <sub>16</sub> " x 1"                            | C24RA | 10      | 4800       | C24RA4004.525F | 17.83       |



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 <sup>9</sup> / <sub>64</sub> " x 1" | A24N | 10      | 5500    | A24N3503.525F | 14.15          |



A 24 R Supra Steel, Str

| A Z T II Ouplu                                      |  |
|---|--|
| Steel, Structural Steel,<br>Tool Steel, Sheet Steel | 10" x <sup>3</sup> / <sub>32</sub> " x 1 <sup>1</sup> / <sub>4</sub> " |
|   | 12" x <sup>1</sup> / <sub>8</sub> " x 1"                               |
|   | 12" x 1/8" x 11/8"   |

| Size   | Grit | Box Qty | Max RPM | Item #        | Price Per Disc |
|--|------|---------|---------|---------------|----------------|
| 10" x <sup>3</sup> / <sub>32</sub> " x 1 <sup>1</sup> / <sub>4</sub> " | A24R | 10      | 7600    | A24R2502.532F | \$9.48         |
| 12" x <sup>1</sup> / <sub>8</sub> " x 1"                               | A24R | 10      | 6400    | A24R3003.025F | 9.48           |
| 12" x 1/8" x 11/8"   | A24R | 10      | 6400    | A24R3003.030F | 9.48           |
| 14" x <sup>9</sup> / <sub>64</sub> " x 1"                              | A24R | 10      | 5500    | A24R3503.525F | 13.32          |



### **Cut Off Wheels 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 Qty | Max RPM | Item #        | Price Per Disc |
|---|------|---------|---------|---------------|----------------|
| 12" x 1/8" x 1"                           | C24R | 10      | 6400    | C24R3003.025F | \$10.20        |
| 12" x 1/8" x 11/8"                        | C24R | 10      | 6400    | C24R3003.030F | 10.20          |
| 14" x <sup>9</sup> / <sub>64</sub> " x 1" | C24R | 10      | 5500    | C24R3503.525F | 14.03          |

C 24 R Supra Stone



| Size                                      | Grit | Box Qty | Max RPM | Item #           | Price Per Disc |
|---|------|---------|---------|------------------|----------------|
| 12" x <sup>3</sup> / <sub>32</sub> " x 1" | A30N | 10      | 5100    | A30N3002.525F FC | \$9.27         |
| 14" x <sup>1</sup> / <sub>8</sub> " x 1"  | A30N | 10      | 4400    | A30N3503.025F FC | 10.56          |
| 16" x <sup>9</sup> / <sub>64</sub> " x 1" | A30N | 10      | 3800    | A30N4003.525F    | 13.93          |

A 30 N Special

All Metals

For use on high output, 3 phase machines.



| Size                                      | Grit | Box Qty | Max RPM | Item #  | Price Per Disc |
|---|------|---------|---------|---------|----------------|
| 10" x 3/32" x 5/8"                        | A30S | 10      | 6112    | CFX0300 | \$12.69        |
| 16" x <sup>5</sup> / <sub>32</sub> " x 1" | A30R | 10      | 3820    | CFX0340 | 29.46          |
| 20" x <sup>3</sup> / <sub>16</sub> " x 1" | A30R | 10      | 3066    | CFX0350 | 60.53          |

A 30 S / R **Special** 

**Hard Steels** 

For use on high output, 3 phase machines.

For use on high output, 3 phase machines.

### 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 | \$7.11         |
| $7" x ^3/_{32}" x ^5/_8"$   | A30T | 10           | 8600    | CFX0205 | 7.11           |
| 8" x <sup>3</sup> / <sub>32</sub> " x <sup>5</sup> / <sub>8</sub> " | A30T | 10           | 7500    | CFX0215 | 8.14           |





For Chopsaws

For fast-cutting action and overall performance on chopsaw machines, these general purpose wheels will accomplish your goals. For use on low-power, 110/120v chopsaws.

| Size                                      | Grit | Box Quantity | Max RPM | Item #  | Price Per Disc |
|---|------|--------------|---------|---------|----------------|
| 14" x <sup>3</sup> / <sub>32</sub> " x 1" | A30R | 10           | 4365    | CFX0455 | \$12.14        |
| 16" x <sup>3</sup> / <sub>32</sub> " x 1" | A30R | 10           | 3820    | CFX0460 | 19.16          |

### 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 <sup>1</sup> / <sub>8</sub> " x 20mm | A24/30S  | 10           | 6300    | CFX0400 | \$11.12        |
| 14 x <sup>1</sup> / <sub>8</sub> " x 20mm  | A24/30SB | 10           | 5460    | CFX0435 | 13.23          |



### Grinding/Notching/Cutting **Dual Use Wheels**

Two specialty wheels for pipe fabrication are the Duplex A 46 VZ and the Pipeline TS 30 AP. Both are approved for use on stainless and carbon steels and double fiberglass reinforcements allow for light grinding, notching and safe cutting.



TS 30 AP Special Pipeline, Tank Fabrication, **Root Seams** 

| Size                  | Grit   | Box Qty | Max RPM | Item #          | Price Per Disc |
|-----------------------|--------|---------|---------|-----------------|----------------|
| 5" x 1/8" x 7/8"      | A 30 P | 10      | 12,200  | TS30AP1253.522D | \$3.09         |
| 5" x 1/8" x 5/8" - 11 | A 30 P | 10      | 10,200  | TS30AP1253.522A | 4.12           |
| 6" x 1/8" x 7/8"      | A 30 P | 10      | 10,200  | TS30AP1503.522D | 3.34           |
| 6" x 1/8" x 5/8" - 11 | A 30 P | 10      | 10,200  | TS30AP1503.522A | 4.37           |

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 <sup>1</sup> / <sub>2</sub> " x <sup>5</sup> / <sub>64</sub> " x <sup>7</sup> / <sub>8</sub> " DUPLEX | A46VZ | 25      | 13,300  | A46VZ1152.022D | \$4.47         |
| $5$ " $\chi$ $^{5}/_{64}$ " $\chi$ $^{7}/_{8}$ " DUPLEX   | A46VZ | 25      | 12,200  | A46VZ1252.022D | 4.95           |

## **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.



#### A 24 Extra Steel, Structural Steel, Tool Steel, Sheet Steel



#### **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  | \$2.56         |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> " x <sup>7</sup> / <sub>8</sub> "        | A24Extra  | 10           | 13300   | A24E1156.022D  | 2.73           |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub | A24Extra  | 10           | 13300   | A24E1156.022A  | 4.48           |
| 5" x <sup>1</sup> / <sub>4</sub> " x <sup>7</sup> / <sub>8</sub> "                                     | A24Extra  | 10           | 12200   | A24E1256.022D  | 3.15           |
| 5" x 1/4" x 5/8"-11 hub  | A24Extra  | 10           | 12200   | A24E1256.022A  | 4.93           |
| 7" x 1/4" x 7/8"   | A24Extra  | 10           | 8500    | A24E1786.022D  | 4.85           |
| 7" x <sup>1</sup> / <sub>4</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub                              | A24Extra  | 10           | 8500    | A24E1786.022A  | 6.60           |
| 7" x 1/4" x 7/8"   | A24ExtraT | 10           | 8500    | A24ET1786.022D | 4.85           |
| 7" x <sup>1</sup> / <sub>4</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub                              | A24ExtraT | 10           | 8500    | A24ET1786.022A | 6.60           |
| 9" x 1/4" x 7/8"   | A24Extra  | 10           | 6600    | A24E2306.022D  | 7.06           |
| 9" x 1/4" x 5/8"-11 hub  | A24Extra  | 10           | 6600    | A24E2306.022A  | 8.81           |

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

#### 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 "chunking"

| Size  | Grit | Box Qty | Max RPM | Item #        | Price Per Disc |
|---|------|---------|---------|---------------|----------------|
| 4" x 5/32" x 5/8"   | A24R | 10      | 15300   | A24R1004.016D | \$2.73         |
| 4" x 1/4" x 5/8"  | A24R | 10      | 15300   | A24R1006.016D | 3.24           |
| $4^{1}/_{2}^{11} \times {}^{5}/_{32}^{11} \times {}^{7}/_{8}^{11}$                                      | A24R | 10      | 13300   | A24R1154.022D | 2.86           |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>5</sup> / <sub>32</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub | A24R | 10      | 13300   | A24R1154.022A | 4.48           |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> " x <sup>7</sup> / <sub>8</sub> "         | A24R | 10      | 13300   | A24R1156.022D | 3.47           |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub  | A24R | 10      | 13300   | A24R1156.022A | 5.23           |
| 5" x <sup>1</sup> / <sub>4</sub> " x <sup>7</sup> / <sub>8</sub> "                                      | A24R | 10      | 12200   | A24R1256.022D | 3.58           |
| 5" x <sup>1</sup> / <sub>4</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub                               | A24R | 10      | 12200   | A24R1256.022A | 5.36           |
| 6" x <sup>1</sup> / <sub>4</sub> " x <sup>7</sup> / <sub>8</sub> "                                      | A24R | 10      | 10200   | A24R1506.022D | 4.58           |
| 6" x <sup>1</sup> / <sub>4</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub                               | A24R | 10      | 10200   | A24R1506.022A | 6.34           |
| 7" x 1/4" x 7/8"  | A24R | 10      | 8500    | A24R1786.022D | 6.03           |
| 7" x 1/4" x 5/8"-11 hub   | A24R | 10      | 8500    | A24R1786.022A | 7.79           |
| 7" x <sup>5</sup> / <sub>16</sub> " x <sup>7</sup> / <sub>8</sub> "                                     | A24R | 10      | 8500    | A24R1788.022D | 7.43           |
| 9" x <sup>1</sup> / <sub>4</sub> " x <sup>7</sup> / <sub>8</sub> "                                      | A24R | 10      | 6600    | A24R2306.022D | 10.23          |
| 9" x <sup>1</sup> / <sub>4</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub                               | A24R | 10      | 6600    | A24R2306.022A | 11.97          |



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 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> " x <sup>7</sup> / <sub>8</sub> "        | A24N | 10      | 13300   | A24N1156.022D | \$3.84         |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub | A24N | 10      | 13300   | A24N1156.022A | 5.59           |
| 5" x 1/4" x 7/8"   | A24N | 10      | 12200   | A24N1256.022D | 4.18           |
| 5" x 1/4" x 5/8"-11 hub  | A24N | 10      | 12200   | A24N1256.022A | 5.95           |
| 7" x 1/4" x 7/8"   | A24N | 10      | 8500    | A24N1786.022D | 6.60           |
| 7" x 1/4" x 5/8"-11 hub  | A24N | 10      | 8500    | A24N1786.022A | 8.38           |
| 7" x <sup>5</sup> / <sub>16</sub> " x <sup>7</sup> / <sub>8</sub> "                                    | A24N | 10      | 8500    | A24N1788.022D | 7.79           |
| 9" x 1/4" x 7/8"   | A24N | 10      | 6600    | A24N2306.022D | 11.17          |
| 9" x <sup>1</sup> / <sub>4</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub                              | A24N | 10      | 6600    | A24N2306.022A | 12.93          |



A 24 S Supra

Cast Iron, Cast Steel

| Size   | Grit | Box Qty | Max RPM | Item #        | Price Per Disc |
|--|------|---------|---------|---------------|----------------|
| 7" x <sup>1</sup> / <sub>4</sub> " x <sup>7</sup> / <sub>8</sub> " | A24S | 10      | 8500    | A24S1786.022D | \$7.79         |
| 7" x $^{1}/_{4}$ " x $^{5}/_{8}$ "-11 hub                          | A24S | 10      | 8500    | A24S1786.022A | 9.53           |



C 24 R Supra Concrete, Granite Stone

| Size   | Grit | Box Qty | Max RPM | Item #        | Price Per Disc |
|--|------|---------|---------|---------------|----------------|
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> " x <sup>7</sup> / <sub>8</sub> "        | C24R | 10      | 13300   | C24R1156.022D | \$4.18         |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub | C24R | 10      | 13300   | C24R1156.022A | 5.95           |
| 5" x 1/4" x 7/8"   | C24R | 10      | 12200   | C24R1256.022D | 5.29           |
| 5" x 1/4" x 5/8"-11 hub  | C24R | 10      | 12200   | C24R1256.022A | 7.06           |
| 7" x 1/4" x 7/8"   | C24R | 10      | 8500    | C24R1786.022D | 7.26           |
| 7" x <sup>1</sup> / <sub>4</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub                              | C24R | 10      | 8500    | C24R1786.022A | 9.04           |



A 24 TX Special Cast Iron, Cast Steel



| Size  | Grit  | Box Qty | Max RPM | Item #         | Price Per Disc |
|---|-------|---------|---------|----------------|----------------|
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> " x <sup>7</sup> / <sub>8</sub> " | A24TX | 10      | 13300   | A24TX1156.022D | \$5.40         |
| $4^{1}/_{2}$ " x $^{1}/_{4}$ " x $^{5}/_{8}$ "-11 hub   | A24TX | 10      | 13300   | A24TX1156.022A | 7.10           |
| 5" x <sup>1</sup> / <sub>4</sub> " x <sup>7</sup> / <sub>8</sub> "                              | A24TX | 10      | 12200   | A24TX1256.022D | 5.87           |
| 5" x 1/4" x 5/8"-11 hub   | A24TX | 10      | 12200   | A24TX1256.022A | 7.55           |
| 7" x 1/4" x 7/8"  | A24TX | 10      | 8500    | A24TX1786.022D | 9.60           |
| 7" x 1/4" x 5/8"-11 hub   | A24TX | 10      | 8500    | A24TX1786.022A | 11.30          |
| 9" x 1/4" x 7/8"  | A24TX | 10      | 6600    | A24TX2306.022D | 13.88          |
| 9" x $^{1}/_{4}$ " x $^{5}/_{8}$ "-11 hub   | A24TX | 10      | 6600    | A24TX2306.022A | 15.65          |



A30M Special

2 in 1 Grinding Disc for Carbon Steel & Stainless Steel

| Size   | Grit | Box Qty | Max RPM | Item #        | Price Per Disc |
|--|------|---------|---------|---------------|----------------|
| $4^{1}/_{2}^{IIII} \times {}^{1}/_{4}^{II} \times {}^{7}/_{8}^{II}$                                    | A30M | 10      | 13300   | A30M1156.022D | \$5.40         |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub | A30M | 10      | 13300   | A30M1156.022A | 7.10           |
| 5" x 1/4" x 7/8"   | A30M | 10      | 12200   | A30M1256.022D | 5.87           |
| 5" x 1/4" x 5/8"-11 hub  | A30M | 10      | 12200   | A30M1256.022A | 7.55           |
| 6" x <sup>1</sup> / <sub>4</sub> " x <sup>7</sup> / <sub>8</sub> "                                     | A30M | 10      | 10200   | A30M1506.022D | 7.89           |
| 6" x <sup>1</sup> / <sub>4</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub                              | A30M | 10      | 10200   | A30M1506.022A | 9.59           |
| 7" x 1/4" x 7/8"   | A30M | 10      | 8500    | A30M1786.022D | 9.60           |
| 7" x <sup>1</sup> / <sub>4</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub                              | A30M | 10      | 8500    | A30M1786.022A | 11.30          |



A 46 N Supra

**Aluminum** Top discs in the industry for aluminum

| Size   | Grit | Box Qty | Max RPM | Item #        | Price Per Disc |
|--|------|---------|---------|---------------|----------------|
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> " x <sup>7</sup> / <sub>8</sub> "        | A46N | 10      | 13300   | A46N1156.022D | \$3.84         |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub | A46N | 10      | 13300   | A46N1156.022A | 5.59           |
| 5" x 1/4" x 7/8"   | A46N | 10      | 12200   | A46N1256.022D | 4.18           |
| 5" x <sup>1</sup> / <sub>4</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub                              | A46N | 10      | 12200   | A46N1256.022A | 5.95           |
| 7" x 1/4" x 7/8"   | A46N | 10      | 8500    | A46N1786.022D | 6.60           |
| 7" x <sup>1</sup> / <sub>4</sub> " x <sup>5</sup> / <sub>8</sub> "-11 hub                              | A46N | 10      | 8500    | A46N1786.022A | 8.38           |



## **NON WOVEN ABRASIVES**

| Material | Extra Coarse | Coarse | Medium | Very Fine | Super Fine |
|----------|--------------|--------|--------|-----------|------------|
| Color    | Brown/Blue   | Brown  | Maroon | Blue      | Grey       |
| Grain    | AO           | AO     | AO     | AO        | SiC        |
| Grit     | 46           | 80     | 180    | 320       | 600        |

### 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** 

GREY = EXTRA COARSE

**BROWN = SUPER FINE** 



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PRICE PER BELT

Wide Belts Size

19" x 48"

36" x 60"

36" x 75"

37" x 60"

37" x 75"

PRICE PER BELT

Super Fine/Very Fine/Medium/Coarse/Extra Coarse

\$163.98

413.75

498.75

433.77

| Size   | Super Fine/Very Fine/Medium/Coarse/Extra Coarse |
|--|---|
| ¹/₂" x 18"   | \$5.49  |
| 1/2" x 201/2"  | 5.82  |
| 1/2" x 24"   | 6.16  |
| 3/4" x 18"   | 7.65  |
| 3/4" x 201/2"  | 8.22  |
| 1" x 18"   | 8.19  |
| 1" x 24"   | 9.51  |
| 11/8" x 21"  | 9.08  |
| 1 <sup>1</sup> / <sub>4</sub> " x 20 <sup>1</sup> / <sub>2</sub> "   | 9.08  |
| 1 <sup>1</sup> / <sub>2</sub> " x 18 <sup>15</sup> / <sub>16</sub> " | 9.66  |
|  |   |

NOTE: Please add 25% for Extra Coarse pricing

### Platen Sander Sizes

NOTE: Please add 25% for Extra Coarse pricing

PRICE PER BELT

| Size   | Super Fine/Very Fine/Medium/Coarse/Extra Coarse |
|--|---|
| 1" x 30"   | \$10.81   |
| 1" x 42"   | 13.42   |
| 11/2" 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 <sup>1</sup> / <sub>2</sub> " x 60"                              | 34.69   |
| 3" x 24"   | 21.30   |
| 3 <sup>1</sup> / <sub>2</sub> " x 15 <sup>1</sup> / <sub>2</sub> " | 23.52   |
| 4" x 24"   | 29.01   |
| 4" x 36"   | 35.90   |
| 6" x 48"   | 60.03   |

### **Backstand Sander Sizes**

PRICE PER BELT

| Size      | Super Fine/Very Fine/Medium/Coarse/Extra 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  |
|           |   |

NOTE: Please add 25% for Extra Coarse pricing

NOTE: Please add 25% for Extra Coarse pricing

A non-woven step in stainless finishing produces a darker, glossy finish. Non-Woven medium to achieve #4 finish on graining stainless.

### Non-Woven Rolls

Clean & Polish, Lightweight

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 comformable 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.

PRICE PER ROLL

|              | 9               |              |             |
|--------------|-----------------|--------------|-------------|
| 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      |



### 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

GREY = EXTRA COARSE BROWN = SUPER FINE

| Heavy Duty S  | Scrim Back - Must be us | ed with long hoo | k back up pads |         |         | PRICE PER PACK |
|---|-------------------------|------------------|----------------|---------|---------|----------------|
| Size  | Quantity Per Pack       | Super Fine       | Very Fine      | Medium  | Coarse  | Extra Course   |
| 4" x NH   | 10                      | \$23.06          | \$23.06        | \$23.06 | \$23.06 | \$23.06        |
| 4" x 5/8"   | 10                      | 23.06            | 23.06          | 23.06   | 23.06   | 23.06          |
| 41/2" x NH  | 10                      | 28.47            | 28.47          | 28.47   | 32.16   | 28.47          |
| 4 <sup>1</sup> / <sub>2</sub> " x <sup>7</sup> / <sub>8</sub> " | 10                      | 28.47            | 28.47          | 28.47   | 32.16   | 28.47          |
| 5" x NH   | 10                      | 33.63            | 33.63          | 33.63   | 38.55   | 33.63          |
| 5" x <sup>7</sup> / <sub>8</sub> "                              | 10                      | 33.63            | 33.63          | 33.63   | 38.55   | 33.63          |
| 6" x NH   | 10                      | 46.63            | 46.63          | 46.63   | 53.14   | 46.63          |
| 7" x NH   | 10                      | 57.93            | 57.93          | 57.93   | 65.78   | 57.93          |
| 7" x <sup>7</sup> /8"   | 10                      | 57.93            | 57.93          | 57.93   | 65.78   | 57.93          |
| 8" x NH   | 10                      | 79.78            | 79.78          | 79.78   | 90.95   | 79.78          |

#### 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  | \$23.30       |
| 41/2" (5/8 - 11) | FJ45G  | 23.88         |
| 5" (5/8 - 11)    | FJ50G  | 24.15         |
| 6" (5/8 - 11)    | FJ60G  | 24.98         |
| 7" (5/8 - 11)    | FJ70G  | 27.00         |
| 8" (5/8- 11)     | FJ80G  | 27.00         |

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

| MATER | IAL#                      | Color  | Qty Per Pack | Price Per Pack |
|-------|---------------------------|--------|--------------|----------------|
| 4396  | General Purpose/Very Fine | Green  | 10           | \$9.66         |
| 4660  | Fine                      | Maroon | 10           | 12.57          |
| 4630  | Ultra fine                | Gray   | 10           | 12.57          |
| 4223  | No Abrasive               | White  | 10           | 12.57          |
| 4790  | Coarse (Extra Cut)        | Brown  | 10           | 24.53          |



6" x 41/2" HAND PAD HOLDER uses 1/2 of standard size hand pad

**List Price**.....\$4.25





# **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 3/4", 1",11/2" QDC Discs \$5.80 each ITEM# SL100MANDREL

> For 2", 3", 4" QDC Discs \$7.28 each ITEM# SL101MANDREL



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

| _ |    | -    | _ |          |    |    |
|---|----|------|---|----------|----|----|
| Ъ | RΙ | ( :H | Ρ | $\vdash$ | ≀∺ | OX |
|   |    |      |   |          |    |    |

| Diameter | Box Qty | Max RPM | 100 & Finer | 80 Grit | 60 Grit | 50 Grit | 40 Grit | 36 Grit | 24 Grit |
|----------|---------|---------|-------------|---------|---------|---------|---------|---------|---------|
| 3/4"     | 100     | 30,000  | \$49.41     | \$49.41 | \$51.12 | \$52.44 | \$54.49 | \$55.97 | \$58.57 |
| 1"       | 100     | 30,000  | 49.41       | 49.41   | 51.12   | 52.44   | 54.49   | 55.97   | 58.57   |
| 11/2"    | 100     | 30,000  | 61.34       | 61.34   | 62.17   | 64.21   | 64.21   | 64.82   | 68.87   |
| 2"       | 100     | 20,000  | 88.03       | 89.83   | 90.98   | 94.62   | 97.22   | 102.14  | 109.46  |
| 3"       | 50      | 20,000  | 56.18       | 57.43   | 58.71   | 60.37   | 62.26   | 64.17   | 68.51   |
| 4"       | 25      | 20,000  | 47.03       | 48.10   | 49.14   | 50.55   | 52.17   | 53.74   | 57.38   |



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

PRICE PER BOX

| Diameter | Box Qty | Max RPM | 120 Grit | 80 Grit | 60 Grit | 50 Grit | 40 Grit | 36 Grit | 24 Grit |
|----------|---------|---------|----------|---------|---------|---------|---------|---------|---------|
| 3/4"     | 100     | 30,000  | \$59.28  | \$59.28 | \$61.35 | \$62.94 | \$65.39 | \$67.34 | \$70.70 |
| 1"       | 100     | 30,000  | 59.28    | 59.28   | 61.35   | 62.94   | 65.39   | 67.34   | 70.70   |
| 11/2"    | 100     | 30,000  | 73.58    | 73.58   | 74.60   | 77.06   | 77.06   | 78.69   | 82.73   |
| 2"       | 100     | 20,000  | 105.63   | 107.79  | 109.18  | 113.57  | 116.66  | 122.57  | 131.59  |
| 3"       | 50      | 20,000  | 67.41    | 68.89   | 70.44   | 72.37   | 74.74   | 76.98   | 81.99   |
| 4"       | 25      | 20,000  | 56.63    | 57.86   | 59.18   | 60.84   | 62.75   | 64.69   | 68.86   |



#### ALUMINA ZIRCONIA - LUBRICATED Must be used with KLINGSPOR'S Steel Mandrels. PRICE PER BOX

| Diameter | Box Qty | Max RPM | 120 Grit | 80 Grit | 60 Grit | 50 Grit | 40 Grit | 36 Grit |
|----------|---------|---------|----------|---------|---------|---------|---------|---------|
| 3/4"     | 100     | 30,000  | \$71.13  | \$71.13 | \$73.61 | \$75.52 | \$78.49 | \$80.79 |
| 1"       | 100     | 30,000  | 71.13    | 71.13   | 73.61   | 75.52   | 78.49   | 80.79   |
| 11/2"    | 100     | 30,000  | 88.33    | 88.33   | 89.56   | 92.46   | 92.46   | 94.44   |
| 2"       | 100     | 20,000  | 126.78   | 129.37  | 131.03  | 136.27  | 140.01  | 147.10  |
| 3"       | 50      | 20,000  | 80.86    | 82.66   | 84.54   | 86.88   | 89.68   | 92.39   |
| 4"       | 25      | 20,000  | 67.96    | 69.41   | 71.03   | 73.00   | 75.34   | 77.61   |



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 PAGE 22 FOR THESE RATINGS.

### (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.

| <i>.</i> |         |             |         | 10.01 0110 1101 | 401 1 4401 |         |         |         |
|----------|---------|-------------|---------|-----------------|------------|---------|---------|---------|
| Diameter | Box Qty | 100 & Finer | 80 Grit | 60 Grit         | 50 Grit    | 40 Grit | 36 Grit | 24 Grit |
| 11/2"    | 100     | \$61.34     | \$61.34 | \$62.17         | \$64.21    | \$64.21 | \$64.82 | \$68.87 |
| 2"       | 100     | 88.03       | 89.83   | 90.98           | 94.62      | 97.22   | 102.14  | 109.46  |
| 3"       | 50      | 56 18       | 57 43   | 58 71           | 60.37      | 62 26   | 64 17   | 68 51   |

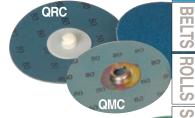
QRC QMC

PRICE PER BOX

PRICE PER BOX

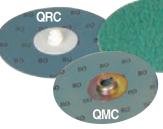
#### ALUMINA ZIRCONIA Must be used with KLINGSPOR's Holder Pads.

| Diameter | Box Qty | 120 Grit | 80 Grit | 60 Grit | 50 Grit | 40 Grit | 36 Grit | 24 Grit |
|----------|---------|----------|---------|---------|---------|---------|---------|---------|
| 11/2"    | 100     | 73.58    | 73.58   | 74.60   | 77.06   | 77.06   | 78.67   | 82.73   |
| 2"       | 100     | 105.63   | 107.79  | 109.18  | 113.57  | 116.66  | 122.57  | 131.61  |
| 3"       | 50      | 67.40    | 68.89   | 70.44   | 72.37   | 74.74   | 76.98   | 81.99   |



#### ALUMINA ZIRCONIA - LUBRICATED Must be used with KLINGSPOR's Holder Pads. PRICE PER BOX

| Diameter | Box Qty | 120 Grit | 80 Grit  | 60 Grit  | 50 Grit  | 40 Grit  | 36 Grit  |
|----------|---------|----------|----------|----------|----------|----------|----------|
| 2"       | 100     | \$126.78 | \$129.37 | \$131.03 | \$136.27 | \$140.01 | \$147.10 |
| 3"       | 50      | 80.86    | 82.66    | 84.54    | 86.88    | 89.68    | 92.39    |



### Ceramic Quick Change Discs

### Ceramic

#### Available in QDC, QRC and QMC

QDC Must be used with KLINGSPOR's Steel Mandrels.

PRICE PER BOX

| Diameter | Box Qty | 100-180 Grit | 80 Grit  | 60 Grit  | 50 Grit  | 36 Grit  |
|----------|---------|--------------|----------|----------|----------|----------|
| 2"       | 100     | \$119.57     | \$125.87 | \$132.21 | \$136.27 | \$147.10 |
| 3"       | 50      | 76.27        | 80.27    | 84.26    | 86.88    | 92.39    |

### **Ceramic Lubricated** Available in QDC, QRC and QMC

ODC Must be used with KLINGSPOR's Steel Mandrels.

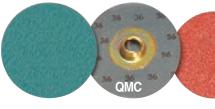
| PRICE | PER | BOX |
|-------|-----|-----|
|       |     |     |

| Diameter | Box Qty | 100-180 Grit | 80 Grit  | 60 Grit  | 50 Grit  | 36 Grit  | 24 Grit  |
|----------|---------|--------------|----------|----------|----------|----------|----------|
| 2"       | 100     | \$119.57     | \$125.87 | \$132.21 | \$136.27 | \$147.10 | \$161.81 |
| 3"       | 50      | 76.27        | 80.27    | 84.26    | 86.88    | 92.39    | 101.63   |

NOTE: MAXIMUM RPM'S FOR QRC and QMC DISCS ARE THE SAME AS THE MAXIMUM RPM RATINGS OF THE HOLDER PAD USED TO DRIVE THE DISCS. SEE PAGE 22 FOR THESE RATINGS.







SHEETS FLAPWHEELS SPECIALTY DISCS

SAFETY POWER TOOLS

REFERENCE

ROLLS

DISCS BONDED NON-WOVEN QUICK CHANGE

### Non-Woven Scrim Backed Quick Change Discs

#### **QDC - Scrim Backed**

Must be used with KLINGSPOR's Steel Mandrels.

| Diameter | Box Quantity | Very Fine | Medium  | Coarse  |
|----------|--------------|-----------|---------|---------|
| 2"       | 25           | \$39.34   | \$39.34 | \$39.34 |
| 3"       | 25           | 74.55     | 74.55   | 74.55   |



#### **QRC - Scrim Backed**

PRICE PER BOX

| Diameter | Box Quantity | Very Fine | Medium  | Coarse  |
|----------|--------------|-----------|---------|---------|
| 2"       | 25           | \$39.34   | \$39.34 | \$39.34 |
| 3"       | 25           | 74.55     | 74.55   | 74.55   |



### **QMC - Scrim Backed**

PRICE PER BOX

| Diameter | Box Quantity | Very Fine | Medium  | Coarse  |
|----------|--------------|-----------|---------|---------|
| 2"       | 25           | \$39.34   | \$39.34 | \$39.34 |
| 3"       | 25           | 74.55     | 74.55   | 74.55   |

NOTE: MAXIMUM RPM'S FOR QRC and QMC DISCS ARE THE SAME AS THE MAXIMUM RPM RATINGS OF THE HOLDER PAD USED TO DRIVE THE DISCS, SEE HOLDER PADS CHART BELOW FOR THESE RATINGS.



### Non-Woven Buff & Blend

### **QRC - Buff and Blend**

PRICE PER BOX

| Diameter | Box Quantity | Very Fine | Medium  | Coarse  |
|----------|--------------|-----------|---------|---------|
| 2"       | 25           | \$39.34   | \$39.34 | \$39.34 |
| 3"       | 25           | 74.55     | 74.55   | 74.55   |

#### QMC - Buff and Blend

PRICE PER BOX

| Diameter | Box Quantity | Very Fine | Medium  | Coarse  |
|----------|--------------|-----------|---------|---------|
| 2"       | 25           | \$39.34   | \$39.34 | \$39.34 |
| 3"       | 25           | 74.55     | 74.55   | 74.55   |



### Holder Pads FOR QRC & QMC DISCS

PRICE PER HOLDER

| Disc Diameter | Density | Max RPM | QRC #                   | Price   |
|---------------|---------|---------|-------------------------|---------|
| 11/2"         | Medium  | 25,000  | (QM) (QR) HOLDER1.5MED  | \$14.49 |
| 11/2"         | Firm    | 30,000  | (QM) (QR) HOLDER1.5FIRM | 14.49   |
| 2"            | Medium  | 25,000  | (QM) (QR) HOLDER2.0MED  | 15.05   |
| 2"            | Firm    | 30,000  | (QM) (QR) HOLDER2.0FIRM | 15.05   |
| 3"            | Medium  | 20,000  | (QM) (QR) HOLDER3.0MED  | 17.57   |
| 3"            | Firm    | 20,000  | (QM) (QR) HOLDER3.0FIRM | 17.57   |





# **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!*®



Approved Dynafile Materials: CS310XF, CS710XF, CS308Y, CS411Y, CS409Y, CS416Y, CS910, CS912, Non-Woven

### 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.



|   | 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           | \$9.98           | \$9.98  | \$9.98  | \$9.98  | \$9.98  |
| * | <sup>1</sup> / <sub>8</sub> " x 18", <sup>1</sup> / <sub>4</sub> " x 18", <sup>1</sup> / <sub>2</sub> " x 18"                      | 10           | 11.06            | 11.06   | 11.06   | 11.06   | 11.06   |
|   | <sup>1</sup> / <sub>4</sub> " x 20 <sup>1</sup> / <sub>2</sub> ", <sup>1</sup> / <sub>2</sub> " x 20 <sup>1</sup> / <sub>2</sub> " | 10           | 12.16            | 12.16   | 12.16   | 12.16   | 12.16   |
| * | 1/8" x 24", 1/4" x 24", 1/2" x 24"   | 10           | 13.26            | 13.26   | 13.26   | 13.26   | 13.26   |
|   | <sup>1</sup> / <sub>4</sub> " x 30", <sup>1</sup> / <sub>2</sub> " x 30"   | 10           | 14.36            | 14.36   | 14.36   | 14.36   | 14.36   |
|   | ³/ <sub>8</sub> " x 13"  | 10           | 10.75            | 10.75   | 10.75   | 10.75   | 10.75   |
|   | <sup>5</sup> / <sub>8</sub> " x 18", <sup>3</sup> / <sub>4</sub> " x 18"   | 10           | 13.42            | 13.42   | 13.42   | 13.42   | 13.42   |
|   | <sup>5</sup> / <sub>8</sub> " x 20 <sup>1</sup> / <sub>2</sub> ", <sup>3</sup> / <sub>4</sub> " x 20 <sup>1</sup> / <sub>2</sub> " | 10           | 14.36            | 14.36   | 14.36   | 14.36   | 14.36   |
|   | <sup>5</sup> / <sub>8</sub> " x 24", <sup>3</sup> / <sub>4</sub> " x 24  | 10           | 15.44            | 15.44   | 15.44   | 15.44   | 15.44   |

<sup>\* 1/8&</sup>quot; 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

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       | \$13.26  | \$13.26 | \$13.26 | \$13.26 | \$13.26 | \$13.26 |
| * 1/8" x 18", 1/4" x 18", 1/2" x   | 18" 10       | 14.36    | 14.36   | 14.36   | 14.36   | 14.36   | 14.36   |
| 1/4" x 201/2", 1/2" x 201/2"   | 10           | 15.62    | 15.62   | 15.62   | 15.62   | 15.62   | 15.62   |
| * 1/8" x 24", 1/4" x 24", 1/2" x   | 24" 10       | 16.53    | 16.53   | 16.53   | 16.53   | 16.53   | 16.53   |
| 1/4" x 30", 1/2" x 30"   | 10           | 17.61    | 17.61   | 17.61   | 17.61   | 17.61   | 17.61   |
| 3/8" x 13"   | 10           | 14.06    | 14.06   | 14.06   | 14.06   | 14.06   | 14.06   |
| <sup>5</sup> / <sub>8</sub> " x 18", <sup>3</sup> / <sub>4</sub> " x 18"   | 10           | 16.04    | 16.04   | 16.04   | 16.04   | 16.04   | 16.04   |
| ${}^{5}/_{8}$ " x 20 ${}^{1}/_{2}$ ", ${}^{3}/_{4}$ " x 20 ${}^{1}/_{2}$ " | 10           | 17.30    | 17.30   | 17.30   | 17.30   | 17.30   | 17.30   |
| <sup>5</sup> / <sub>8</sub> " x 24", <sup>3</sup> / <sub>4</sub> " x 24    | 10           | 18.72    | 18.72   | 18.72   | 18.72   | 18.72   | 18.72   |

<sup>\* 1/8&</sup>quot; wide belts are not guaranteed against breakage. All belts with #4 (butt splice) only.

### Ceramic File Belts

#### CERAMIC ALUMINUM OXIDE YY WEIGHT BACKING

| Belt Size  | Box Quantity | 100 - 180 Grit | 80 Grit | 60 Grit | 50 Grit | 36 Grit |
|--|--------------|----------------|---------|---------|---------|---------|
| <sup>1</sup> / <sub>4</sub> " x 18", <sup>1</sup> / <sub>2</sub> " x 18" | 10           | \$15.69        | \$16.52 | \$16.52 | \$16.52 | \$16.52 |
| $^{1}/_{4}$ " x 20 $^{1}/_{2}$ ", $^{1}/_{2}$ " x 20 $^{1}/_{2}$ "       | 10           | 17.07          | 17.97   | 17.97   | 17.97   | 17.97   |
| 1/4" x 24", 1/2" x 24"   | 10           | 18.08          | 19.03   | 19.03   | 19.03   | 19.03   |
| <sup>5</sup> / <sub>8</sub> " x 18", <sup>3</sup> / <sub>4</sub> " x 18" | 10           | 17.55          | 18.48   | 18.48   | 18.48   | 18.48   |
| <sup>5</sup> / <sub>8</sub> " x 24, <sup>3</sup> / <sub>4</sub> " x 24   | 10           | 20.44          | 21.51   | 21.51   | 21.51   | 21.51   |





### **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 OX  | PRIC         | E PER BOX |         |         |
|-----------|--------------|--------------|-----------|---------|---------|
| Belt Size | Box Quantity | 150-100 Grit | 80 Grit   | 60 Grit | 40 Grit |
| 3" x 21"  | 10 *         | \$28.77      | \$29.55   | \$30.89 | \$33.02 |
| 3" x 24"  | 10 *         | 30.77        | 31.67     | 33.16   | 35.60   |
| 4" x 21"  | 10           | 47.88        | 48.95     | 50.61   | 53.63   |
| 4" x 24"  | 10 *         | 50.45        | 51.81     | 53.63   | 56.96   |
| 4" x 36"  | 10           | 60.90        | 62.74     | 65.42   | 70.59   |
| 6" x 48"  | 10           | 106.95       | 110.58    | 116.04  | 126.48  |

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

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           | * | \$35.89  | \$38.62 | \$40.15 | \$42.87 | \$44.40 | \$47.73 |
| 3" x 21"  | 10           | * | 38.15    | 41.36   | 43.33   | 46.21   | 48.34   | 52.26   |
| 3" x 233/4"   | 10           |   | 41.10    | 44.40   | 46.49   | 49.86   | 52.26   | 56.66   |
| 3" x 24"  | 10           | * | 41.10    | 44.40   | 46.49   | 49.86   | 52.26   | 56.66   |
| 4" x 21"  | 10           |   | 64.47    | 68.45   | 70.91   | 75.15   | 77.56   | 83.02   |
| 4" x 24"  | 10           | * | 68.45    | 72.58   | 75.15   | 79.69   | 82.88   | 88.75   |









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



### 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"   | \$2.65           | \$2.68  | \$2.74  | \$2.78  | \$2.80  | \$2.86  | \$2.96  |
| 1" x 21"   | 2.75             | 2.78    | 2.83    | 2.88    | 2.94    | 2.99    | 3.12    |
| 1" X 24"   | 2.83             | 2.86    | 2.94    | 3.01    | 3.08    | 3.12    | 3.19    |
| 1" x 30"   | 3.03             | 3.07    | 3.15    | 3.23    | 3.30    | 3.40    | 3.57    |
| 11/8" x 21"  | 2.90             | 2.94    | 3.01    | 3.08    | 3.14    | 3.23    | 3.33    |
| 1" x 72"   | 4.36             | 4.43    | 4.68    | 4.89    | 5.03    | 5.25    | 5.67    |
| 1" x 132"  | 6.29             | 6.44    | 6.86    | 7.17    | 7.51    | 7.91    | 8.71    |
| 2" x 42"   | 4.65             | 4.75    | 5.02    | 5.21    | 5.40    | 5.66    | 6.19    |
| 2" x 48"   | 4.99             | 5.19    | 5.41    | 5.63    | 5.90    | 6.16    | 6.77    |
| 2" x 72"   | 6.46             | 6.73    | 7.10    | 7.43    | 7.81    | 8.23    | 9.12    |
| 2" x 118"  | 9.32             | 9.69    | 10.31   | 10.88   | 11.47   | 12.13   | 13.63   |
| 2" x 132"  | 10.16            | 10.59   | 11.28   | 11.57   | 12.58   | 13.34   | 15.94   |
| 3" x 21"   | 4.95             | 5.06    | 5.25    | 5.40    | 5.57    | 5.80    | 6.14    |
| 3" x 24"   | 5.24             | 5.35    | 5.58    | 5.71    | 5.86    | 6.13    | 6.59    |
| 3" x 118"  | 13.73            | 14.32   | 15.33   | 16.13   | 17.03   | 18.10   | 20.29   |
| 3" x 132"  | 14.95            | 15.65   | 16.77   | 17.62   | 18.68   | 19.89   | 22.29   |
| 3 <sup>1</sup> / <sub>2</sub> " x 15 <sup>1</sup> / <sub>2</sub> ' | 5.49             | 5.62    | 5.76    | 5.91    | 6.08    | 6.24    | 6.60    |
| 4" x 21"   | 6.59             | 6.74    | 6.97    | 7.17    | 7.40    | 7.62    | 8.16    |
| 4" x 24"   | 6.96             | 7.13    | 7.38    | 7.61    | 7.86    | 8.17    | 8.75    |
| 4" x 36"   | 8.35             | 8.67    | 9.03    | 9.38    | 9.73    | 10.19   | 11.05   |
| 4" x 118"  | 18.16            | 19.06   | 20.26   | 21.45   | 22.60   | 24.02   | 26.84   |
| 4" x 132"  | 19.83            | 20.86   | 22.15   | 23.47   | 24.79   | 26.42   | 29.59   |
| 6" x 48"   | 14.68            | 15.21   | 15.95   | 16.65   | 17.38   | 18.23   | 19.97   |
| 6" x 89"   | 21.99            | 22.96   | 24.34   | 25.62   | 27.01   | 28.59   | 31.77   |
| 6" x 132"  | 29.65            | 31.08   | 33.11   | 35.01   | 36.17   | 38.46   | 44.52   |

### Custom Size Cloth Belts Create your own abrasive belt for your particular application.

| Width | 100 Grit<br>& Finer | 80 Grit  | 60 Grit  | 50 Grit  | 40 Grit  | 36 Grit  | 24 Grit  | Joining<br>Charge |
|-------|---------------------|----------|----------|----------|----------|----------|----------|-------------------|
| 1/2"  | \$0.0170            | \$0.0196 | \$0.0196 | \$0.0211 | \$0.0224 | \$0.0233 | \$0.0259 | \$1.55            |
| 3/4"  | 0.0246              | 0.0259   | 0.0282   | 0.0292   | 0.0314   | 0.0340   | 0.0384   | 1.55              |
| 1"    | 0.0320              | 0.0331   | 0.0363   | 0.0385   | 0.0412   | 0.0442   | 0.0500   | 2.09              |
| 2"    | 0.0614              | 0.0645   | 0.0699   | 0.0745   | 0.0796   | 0.0854   | 0.0980   | 2.09              |
| 3"    | 0.0903              | 0.0949   | 0.1037   | 0.1105   | 0.1182   | 0.1270   | 0.1458   | 3.08              |
| 4"    | 0.1195              | 0.1268   | 0.1373   | 0.1470   | 0.1567   | 0.1691   | 0.1936   | 4.10              |
| 5"    | 0.1489              | 0.1571   | 0.1715   | 0.1831   | 0.1963   | 0.2112   | 0.2409   | 5.10              |
| 6"    | 0.1783              | 0.1889   | 0.2044   | 0.2189   | 0.2344   | 0.2520   | 0.2883   | 6.14              |
| 7"    | 0.2079              | 0.2198   | 0.2385   | 0.2551   | 0.2731   | 0.2942   | 0.336    | 7.13              |
| 8"    | 0.2375              | 0.2506   | 0.2721   | 0.2909   | 0.3116   | 0.3359   | 0.3837   | 8.17              |
| 9"    | 0.2661              | 0.2816   | 0.3058   | 0.3270   | 0.3501   | 0.3771   | 0.4315   | 9.19              |
| 14"   | 0.4122              | 0.4367   | 0.4745   | 0.5069   | 0.5436   | 0.5855   | 0.6700   | 14.26             |
| 36"   | 0.8312              | 0.8802   | 0.9558   | 1.0232   | 1.0973   | 1.1827   | 1.3535   | 30.71             |
| 50"   | 1.1490              | 1.2176   | 1.3227   | 1.4164   | 1.5188   | 1.6373   | 1.8744   | 42.67             |
| 51"   | 1.1948              | 1.2659   | 1.3747   | 1.4721   | 1.5794   | 1.7022   | 1.9490   | 44.32             |
| 52"   | 1.2402              | 1.3140   | 1.4273   | 1.5288   | 1.6393   | 1.7673   | 2.0233   | 46.06             |
| 53"   | 1.2402              | 1.3140   | 1.4273   | 1.5288   | 1.6393   | 1.7673   | 2.0233   | 46.06             |

#### PRICE CALCULATION FOR CUSTOM SIZE BELTS

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

#### **EXAMPLE:**

(1,2) \$.0614 x 132" = \$8.1048 +\$2.09 \$10.1948 \$10.19 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 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                 |
| LS 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*  |                       |
| CS 710*  | Heat-Treated XF       |
|          |                       |

#### LINEN MATERIAL BELTS\*\*\*

Wt. Cloth

- \* Add 5% to price shown
- \*\* Add 10% to price shown
- \*\*\* Up to 35" widths only

CS 310 100 x 2" x 132" #4

### **Custom Size Specialty Polyester Belts**

|       | 100 Grit |          |          |          |          |          |          | Joining |
|-------|----------|----------|----------|----------|----------|----------|----------|---------|
| Width | & Finer  | 80 Grit  | 60 Grit  | 50 Grit  | 40 Grit  | 36 Grit  | 24 Grit  | Charge  |
| 1/2"  | \$0.0233 | \$0.0257 | \$0.0284 | \$0.0305 | \$0.0323 | \$0.0362 | \$0.0387 | \$1.55  |
| 5/8"  | 0.0286   | 0.0311   | 0.0344   | 0.0359   | 0.0387   | 0.0440   | 0.0499   | 1.55    |
| 3/4"  | 0.0341   | 0.0363   | 0.0410   | 0.0431   | 0.0458   | 0.0522   | 0.0590   | 1.55    |
| 1"    | 0.0440   | 0.0465   | 0.0533   | 0.0562   | 0.0599   | 0.0682   | 0.0773   | 2.09    |
| 2"    | 0.0848   | 0.0907   | 0.1020   | 0.1087   | 0.1158   | 0.1314   | 0.1504   | 2.09    |
| 3"    | 0.1243   | 0.1328   | 0.1512   | 0.1610   | 0.1726   | 0.1956   | 0.2237   | 3.08    |
| 4"    | 0.1649   | 0.1775   | 0.1999   | 0.2144   | 0.2285   | 0.2600   | 0.2974   | 4.10    |
| 5"    | 0.2056   | 0.2199   | 0.2495   | 0.2668   | 0.2858   | 0.3240   | 0.3704   | 5.10    |
| 6"    | 0.2460   | 0.2640   | 0.2979   | 0.3189   | 0.3419   | 0.3875   | 0.4427   | 6.14    |
| 7"    | 0.2870   | 0.3065   | 0.3473   | 0.3714   | 0.3983   | 0.4522   | 0.5160   | 7.13    |
| 8"    | 0.3275   | 0.3501   | 0.3964   | 0.4238   | 0.4545   | 0.5160   | 0.5894   | 8.17    |
| 9"    | 0.3674   | 0.3932   | 0.4457   | 0.4764   | 0.5106   | 0.5793   | 0.6627   | 9.19    |
| 14"   | 0.5694   | 0.6098   | 0.6917   | 0.7389   | 0.7924   | 0.8999   | 1.0294   | 14.26   |
| 36"   | 1.1475   | 1.2298   | 1.3926   | 1.4912   | 1.5992   | 1.8168   | 2.0793   | 30.71   |
| 50"   | 1.5863   | 1.7007   | 1.9273   | 2.0640   | 2.2132   | 2.5160   | 2.8803   | 42.67   |
| 51"   | 1.6495   | 1.7679   | 2.0036   | 2.1456   | 2.3011   | 2.6149   | 2.9946   | 44.32   |
| 52"   | 1.7123   | 1.8352   | 2.0799   | 2.2279   | 2.3889   | 2.7154   | 3.1089   | 46.06   |
| 53"   | 1.7123   | 1.8352   | 2.0799   | 2.2279   | 2.3889   | 2.7154   | 3.1089   | 46.06   |

| AVAILABI              | E MATERIALS         |
|-----------------------|---------------------|
| CS 326 <sup>1</sup>   | A/O Agglomerate     |
|                       | YX wt Cloth         |
| CS 409 <sup>2</sup>   | A/Z Dry-Lube        |
|                       | YY/YX wt Cloth      |
| CS 411                | A/Z X wt Cloth      |
| CS 411 <sup>3</sup>   | A/Z YX/YY wt Cloth  |
| CS 416 <sup>3</sup>   | A/Z YY/YX wt Cloth  |
| CS 811YY <sup>2</sup> | A/Z YY/YX Cloth ACT |

<sup>=</sup> Final price x 2





### **Custom Size Ceramic Cloth Belts**

| Width  | 100 - 180 Grit | 80 Grit  | 60 Grit  | 50 Grit  | 36 Grit  | 24 Grit  | Joining Charge |
|--------|----------------|----------|----------|----------|----------|----------|----------------|
| 1/2"   | \$0.0430       | \$0.0453 | \$0.0496 | \$0.0531 | \$0.0631 | \$0.0694 | \$2.68         |
| 5/8"   | 0.0522         | 0.0549   | 0.0599   | 0.0629   | 0.0770   | 0.0847   | 2.68           |
| 3/4"   | 0.0606         | 0.0638   | 0.0717   | 0.0751   | 0.0907   | 0.0997   | 2.68           |
| 1"     | 0.0769         | 0.0809   | 0.0932   | 0.0983   | 0.1196   | 0.1315   | 3.64           |
| 11/4"  | 0.0960         | 0.1010   | 0.1130   | 0.1211   | 0.1470   | 0.1618   | 3.64           |
| 11/2"  | 0.1137         | 0.1197   | 0.1348   | 0.1446   | 0.1751   | 0.1926   | 3.64           |
| 13/4"  | 0.1310         | 0.1379   | 0.1556   | 0.1671   | 0.2031   | 0.2234   | 3.64           |
| 2"     | 0.1500         | 0.1580   | 0.1777   | 0.1895   | 0.2296   | 0.2525   | 3.64           |
| 21/4"  | 0.1673         | 0.1762   | 0.1995   | 0.2125   | 0.2574   | 0.2831   | 4.53           |
| 21/211 | 0.1855         | 0.1953   | 0.2210   | 0.2361   | 0.2854   | 0.3139   | 4.53           |
| 3"     | 0.2200         | 0.2316   | 0.2644   | 0.2809   | 0.3416   | 0.3758   | 5.39           |
| 31/2"  | 0.2575         | 0.2710   | 0.3055   | 0.3277   | 0.3980   | 0.4378   | 6.25           |
| 4"     | 0.2945         | 0.3100   | 0.3484   | 0.3739   | 0.4538   | 0.4992   | 7.17           |
| 41/211 | 0.3306         | 0.3480   | 0.3925   | 0.4192   | 0.5101   | 0.5611   | 8.07           |
| 5"     | 0.3648         | 0.3840   | 0.4359   | 0.4656   | 0.5657   | 0.6223   | 8.91           |
| 6"     | 0.4376         | 0.4607   | 0.5199   | 0.5567   | 0.6758   | 0.7435   | 10.69          |
| 7"     | 0.5084         | 0.5352   | 0.6067   | 0.6484   | 0.7892   | 0.8682   | 12.43          |
| 8"     | 0.5807         | 0.6112   | 0.6917   | 0.7402   | 0.9010   | 0.9911   | 14.24          |
| 9"     | 0.6523         | 0.6867   | 0.7777   | 0.8312   | 1.0115   | 1.1127   | 16.11          |
| 10"    | 0.7253         | 0.7635   | 0.8629   | 0.9238   | 1.1235   | 1.2358   | 17.83          |
| 11"    | 0.7960         | 0.8379   | 0.9494   | 1.0158   | 1.2362   | 1.3598   | 19.53          |
| 12"    | 0.8683         | 0.9140   | 1.0339   | 1.1071   | 1.3478   | 1.4826   | 21.38          |



CS 631 XF A/O Ceramic, Multibond, XF-wt Cloth (60, 80, 100, 120 Grit)

CS 631 JF A/O Ceramic, Multibond, JF-wt Cloth (80, 100, 120, 180, 240, 320 Grit)

A/O Ceramic, Multibond, YY wt Cloth CS 910\* (24, 36, 60 Grit)

CS 912 A/O Ceramic YY wt Cloth

(36 and 50-180 Grit)

\*= Add 20% to final price



<sup>&</sup>lt;sup>2</sup> = Add 20% to final price 3 = Add 10% to final price

### **Custom Size Paper Belts**

Design your own paper belt for your application.

| Width | 100 Grit & Finer | 80 Grit  | Joining Charge |
|-------|------------------|----------|----------------|
| 4"    | \$0.0619         | \$0.0678 | \$4.48         |
| 6"    | 0.0910           | 0.0995   | 6.66           |
| 8"    | 0.1204           | 0.1318   | 8.85           |

#### **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. Multiply price by length in inches (if fraction, use next

Add joining charge in the last column.

Multiply by applicable up charge, if necessary.

Rounding off to second decimal place equals retail price.

EXAMPLE:

PS 20 80F 6" x 270" #4 (1,2) \$.0995 x 270 = (3)

+ \$6.66 \$33.525

(5)

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

A/O E wt Paper ACT PS 22









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" | \$31.33          | \$33.63 |
| 6" x 288" | 32.61            | 34.99   |
| 6" x 298" | 33.50            | 35.95   |
| 6" x 328" | 36.23            | 38.97   |
| 6" x 330" | 36.44            | 39.16   |
| 6" x 335" | 36.86            | 39.66   |
| 6" x 376" | 40.59            | 43.73   |
| 6" x 396" | 42.42            | 45.71   |

# 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 main-

tenance 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"    | \$42.25          | \$44.27 | \$51.73 | \$59.48 |
| 11/2" | 59.68            | 61.43   | 73.61   | 82.83   |
| 2"    | 75.57            | 79.35   | 94.98   | 110.41  |
| 21/2" | 92.75            | 97.63   | 105.45  | 122.05  |
| 3"    | 111.31           | 117.16  | 126.54  | 146.42  |
| 31/2" | 129.85           | 136.66  | 147.59  | 181.86  |
| 4"    | 148.38           | 156.20  | 168.73  | 195.23  |
| 41/2" | 167.17           | 176.01  | 189.98  | 219.88  |
| 6"    | 222.90           | 234.60  | 253.39  | 293.28  |
| 41/2" | 167.17           | 176.01  | 189.98  | 219.88  |

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.



PRICE PER ROLL

KLINGSPOR

| Width | 100 Grit & Finer | 80 Grit | 50 Grit | 40 Grit |
|-------|------------------|---------|---------|---------|
| 1"    | \$34.89          | \$37.65 | \$47.34 | \$50.54 |
| 11/2" | 49.35            | 52.20   | 66.36   | 70.39   |
| 2"    | 62.43            | 67.44   | 90.25   | 93.86   |
| 3"    | 91.94            | 99.59   | 115.52  | 124.46  |
| 4"    | 126.13           | 132.79  | 153.99  | 165.98  |
| 6"    | 189.46           | 199.40  | 231.32  | 249.30  |



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

<sup>\*</sup> Add 5% to price shown \*\* Add 10% to price shown



### Waterproof Paper Rolls

### PS 14 SILICON CARBIDE A/C WEIGHT LATEX 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

# **SHEETS**

### **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<br>Quantity | 100C Grit<br>& Finer | 80C Grit | 60C Grit | 40D Grit | 36D Grit |
|---|------------------|----------------------|----------|----------|----------|----------|
| 9" x 11"  | 50               | \$57.37              | \$63.10  | \$71.70  | \$89.85  | \$106.85 |
| 4 <sup>1</sup> / <sub>2</sub> " x 11"                             | 100              | 65.01                | 72.66    | 82.22    | 103.27   | 122.79   |
| 3 <sup>2</sup> / <sub>3</sub> " x 9"                              | 100              | 44.00                | 49.70    | 55.43    | 68.83    | 81.85    |
| 4 <sup>1</sup> / <sub>2</sub> " x 5 <sup>1</sup> / <sub>2</sub> " | 100              | 32.50                | 34.42    | 42.06    | 51.61    | 61.36    |



#### **PS 14 SILICON CARBIDE WATERPROOF** A/C WEIGHT LATEX PAPER

PRICE PER PACK

| Size  | Pack<br>Quantity | 2000A-<br>220A Grit | 180C Grit | 150C Grit | 120C Grit | 100C Grit | 80C Grit | 60C Grit |
|---|------------------|---------------------|-----------|-----------|-----------|-----------|----------|----------|
| 9" x 11"  | 50               | \$47.53             | \$51.50   | \$54.64   | \$57.82   | \$66.51   | \$76.02  | \$89.51  |
| 4 <sup>1</sup> / <sub>2</sub> " x 11"                             | 100              | 53.85               | 58.63     | 61.78     | 66.51     | 76.02     | 87.14    | 102.97   |
| 3²/₃" x 9"  | 100              | 36.46               | 39.62     | 42.78     | 44.33     | 50.68     | 58.63    | 68.11    |
| 4 <sup>1</sup> / <sub>2</sub> " x 5 <sup>1</sup> / <sub>2</sub> " | 100              | 25.33               | 28.53     | 30.09     | 33.27     | 39.62     | 44.33    | 52.26    |



#### **PS 10 GARNET** A/C/D WEIGHT PAPER

PRICE PER PACK

| Size     | Pack<br>Quantity | 220A Grit | 180A Grit | 150A Grit | 120A Grit | 100A Grit | 80A Grit |
|----------|------------------|-----------|-----------|-----------|-----------|-----------|----------|
| 9" x 11" | 50               | \$25.33   | \$25.33   | \$25.33   | \$25.33   | \$25.33   | \$30.09  |



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<br>Quantity | 600B-<br>150B Grit | 120C-<br>100C Grit | 80C Grit | 60C Grit | 40C Grit |
|---------------------------------------|------------------|--------------------|--------------------|----------|----------|----------|
| 9" x 11"                              | 50               | \$47.53            | \$47.53            | \$52.26  | \$59.39  | \$74.43  |
| 4 <sup>1</sup> / <sub>2</sub> " x 11" | 100              | 53.85              | 53.85              | 60.19    | 68.11    | 85.53    |
| 3 <sup>2</sup> / <sub>3</sub> " x 9"  | 100              | 36.46              | 36.46              | 41.17    | 45.92    | 57.01    |
| $4^{1}/_{2}$ " x $5^{1}/_{2}$ "       | 100              | 26.95              | 26.95              | 28.53    | 34.85    | 42.78    |



#### **VP 73W STEARATE ALUMINUM OXIDE LATEX PAPER**

PRICE PER PACK

| Size  | Pack Quantity | 100 Grit & Finer | 80 Grit |
|---|---------------|------------------|---------|
| 9" x 11"  | 50            | \$54.64          | \$60.11 |
| 4 <sup>1</sup> / <sub>2</sub> " x 11"                             | 100           | 61.94            | 69.22   |
| 3 <sup>2</sup> / <sub>3</sub> " x 9"                              | 100           | 41.91            | 47.34   |
| 4 <sup>1</sup> / <sub>2</sub> " x 5 <sup>1</sup> / <sub>2</sub> " | 100           | 30.96            | 32.80   |



#### **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            | \$76.02       | \$86.32      | \$99.81 |



#### KL 361 "PREMIUM" ALUMINUM OXIDE CLOTH **FLEXIBLE COTTON CLOTH**

PRICE PER PACK

| Size  | Pack<br>Quantity | 100 Grit<br>& Finer | 80 Grit  | 60 Grit  | 40 Grit  |
|---|------------------|---------------------|----------|----------|----------|
| 9" x 11"  | 50               | \$95.82             | \$102.17 | \$123.54 | \$143.34 |
| 4 <sup>1</sup> / <sub>2</sub> " x 11"                             | 100              | 110.89              | 118.80   | 142.59   | 164.73   |
| 3 <sup>2</sup> / <sub>3</sub> " x 9"                              | 100              | 72.84               | 77.62    | 95.04    | 109.30   |
| 4 <sup>1</sup> / <sub>2</sub> " x 5 <sup>1</sup> / <sub>2</sub> " | 100              | 55.43               | 58.63    | 71.28    | 80.81    |



#### **KL 385 ALUMINUM OXIDE CLOTH HEAVY COTTON CLOTH**

PRICE PER PACK

| Size  | Pack<br>Quantity | 100 Grit<br>& Finer | 80 Grit | 50 Grit  | 40 Grit  |
|---|------------------|---------------------|---------|----------|----------|
| 9" x 11"  | 50               | \$82.55             | \$87.93 | \$113.34 | \$121.57 |
| 4 <sup>1</sup> / <sub>2</sub> " x 11"                             | 100              | 95.51               | 102.34  | 130.96   | 141.90   |
| 3²/₃" x 9"  | 100              | 62.79               | 66.81   | 87.71    | 92.70    |
| 4 <sup>1</sup> / <sub>2</sub> " x 5 <sup>1</sup> / <sub>2</sub> " | 100              | 47.75               | 50.43   | 64.77    | 68.52    |



### **Board File Sheets**

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

#### PLAIN SHEETS - 23/4" X 171/2"

PRICE PER BOX

| Material | 150 Grit<br>& Finer | Box<br>Qty | 120<br>Grit | Box<br>Qty | 100<br>Grit | Box<br>Qty | 80<br>Grit | Box<br>Qty | 60<br>Grit | Box<br>Qty | 40<br>Grit | Box<br>Qty | 36<br>Grit | Box<br>Qty |
|----------|---------------------|------------|-------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| PS 73W   | \$47.70             | 100        |             |            |             |            |            |            |            |            |            |            |            |            |
| PS 33    | \$41.59             | 100        | \$41.59     | 100        | \$41.59     | 100        | \$22.98    | 50         | \$28.47    | 50         | \$31.53    | 50         |            |            |
| PS 29    |                     |            |             |            |             |            | \$37.28    | 50         | \$42.35    | 50         | \$50.78    | 50         |            |            |
| PS 20    |                     |            |             |            |             |            |            |            |            |            |            |            | \$28.10    | 25         |
| PS 21    | \$41.59             | 50         | \$41.59     | 50         | \$41.59     | 50         | \$44.37    | 50         |            |            | \$60.03    | 50         | \$31.94    | 25         |
| PS 36    | \$28.91             | 50         | \$28.91     | 50         | \$28.91     | 50         | \$31.98    | 50         | \$39.63    | 50         | \$43.92    | 50         | \$23.36    | 25         |

#### PSA SHEETS - 23/4" X 161/2"

| Material | 150 Grit<br>& Finer | Box<br>Qty | 120<br>Grit | Box<br>Qty | 100<br>Grit | Box<br>Qty | 80<br>Grit | Box<br>Qty | 60<br>Grit | Box<br>Qty | 40<br>Grit | Box<br>Qty | 36<br>Grit | Box<br>Qty |
|----------|---------------------|------------|-------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| PS 73W   | \$36.96             | 50         |             |            |             |            |            |            |            |            |            |            |            |            |
| PS 33    | \$32.31             | 50         | \$32.31     | 50         | \$32.31     | 50         | \$35.40    | 50         | \$40.03    | 50         | \$43.89    | 50         |            |            |
| PS 29    |                     |            |             |            |             |            | \$48.49    | 50         | \$53.11    | 50         | \$56.96    | 50         |            |            |
| PS 20    |                     |            |             |            |             |            |            |            |            |            |            |            | \$30.02    | 25         |
| PS 21    |                     |            | \$55.41     | 50         | \$55.41     | 50         | \$57.74    | 50         | \$63.89    | 50         | \$69.26    | 50         | \$34.64    | 25         |
| PS 36    | \$44.97             | 50         | \$44.97     | 50         | \$44.97     | 50         | \$49.27    | 50         | \$55.71    | 50         | \$61.06    | 50         | \$30.53    | 25         |

#### KLING-ON® SHEETS - 23/4" X 161/2"

| Material | 150 Grit<br>& Finer | Box<br>Qty | 120<br>Grit | Box<br>Qty | 100<br>Grit | Box<br>Qty | 80<br>Grit | Box<br>Qty | 60<br>Grit | Box<br>Qty | 40<br>Grit | Box<br>Qty | 36<br>Grit | Box<br>Qty |
|----------|---------------------|------------|-------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| PS 73W   | \$52.31             | 50         |             |            |             |            |            |            |            |            |            |            |            |            |
| PS 33    | \$45.41             | 50         | \$45.41     | 50         | \$45.41     | 50         | \$50.01    | 50         | \$49.27    | 50         | \$51.57    | 50         |            |            |
| PS 29    |                     |            |             |            |             |            | \$33.10    | 25         | \$36.96    | 25         | \$37.32    | 25         |            |            |
| PS 20    |                     |            |             |            |             |            | î          |            |            |            | n          |            | \$41.08    | 25         |



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

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

| Diameter<br>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  |         | \$29.05 | \$29.05 | \$29.05 |
| 5¹/₂" x 1"                                   | 6,800   | 34.63    | 34.63    | 29.05    | 29.05    | 26.10    | 26.10    | 26.10   | 23.47   | 23.47   |         |
| 51/2" x 2"                                   | 6,800   | 48.75    | 48.75    | 43.98    | 43.98    | 40.58    | 40.58    | 40.58   | 34.63   | 34.63   | 34.63   |
| * 6¹/₂" 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 <sup>1</sup> / <sub>2</sub> " 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   |
| 6¹/₂" 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 <sup>3</sup> / <sub>16</sub> " 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 <sup>3</sup> / <sub>16</sub> "       | 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 1¹/4" available. Please specify bore size. All other SM 611 flapwheels must be used with SMD 612 Mounting Plates.

### 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. For extended life, use at a slower RPM between 7.500 and 8.600.

| Diameter x Width x Spindle                          | Maximum | Recommeded | 120     | 80      | 60      | 40      |
|---|---------|------------|---------|---------|---------|---------|
|   | RPM     | RPM        | Grit    | Grit    | Grit    | Grit    |
| 4 <sup>1</sup> / <sub>2</sub> " x 3/4" x 5/8" - 11" | 13,300  | 8,600      | \$22.90 | \$22.90 | \$21.61 | \$21.61 |

WSM617 great for stainless steel kitchen manufacturers, and blending weld seams for a linear scratch pattern.



### **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.

| Diameter of<br>Plates (Inches)   | Standard Bore (Inches)                                | Maximum Bore (Inches)  | Price Per Pair   |
|----------------------------------|---|--|--|
| 2 <sup>3</sup> / <sub>16</sub> " | 3/8"  | 3/ <sub>4</sub> "  | \$8.12   |
| 23/16"                           | 3/8"  | 3/4"   | 8.12   |
| 31/8"                            | 1/2"  | <b>1</b> <sup>11</sup> / <sub>16</sub> "                                 | 8.12   |
| 4 <sup>3</sup> / <sub>4</sub> "  | 9/16"   | 2"   | 19.19  |
| 6"                               | 3/4"  | 2"   | 29.31  |
| 8"                               | 1"  | 31/8"  | 97.71  |
| 9"                               | 1"  | 31/8"  | 109.28   |
|                                  | Plates (Inches)  23/16"  23/16"  31/8"  43/4"  6"  8" | Plates (Inches)  23/16" 3/8" 23/16" 31/8" 1/2" 43/4" 9/16" 6" 3/4" 8" 1" | Plates (Inches)         (Inches)         (Inches)           2³/₁6"         ³/৪"         ³/₄"           2³/₁6"         ³/৪"         ³/₄"           3¹/৪"         ¹/₂"         1¹¹/₁6"           4³/₄"         9/₁6"         2"           6"         ³/₄"         2"           8"         1"         3¹/₅" |



† 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

\*Other sizes are available. Please call for pricing.

| 1" x 1/2" x 1/4" 30,000 \$5.80  1" x 1" x 1/4" 30,000 6.20  11/2" x 1/2" x 1/4" 25,000 6.59  11/2" x 1" x 1/4" 25,000 7.38  2" x 1/2" x 1/4" 25,000 8.08  2" x 3/4" x 1/4" 25,000 8.08  2" x 1" x 1/4" 25,000 8.69  2" x 1" x 1/4" 25,000 8.69  2'/2" x 1/2" x 1/4" 20,000 8.23  2'/2" x 1" x 1/4" 20,000 13.52  3" x 1/2" x 1/4" 12,000 10.15  3" x 1/4" x 1/4" 12,000 10.89   | Diameter x Width x Spindle  | Max RPM | Price  |
|---|---|---------|--------|
| 11/2" x 1/2" x 1/4"       25,000       6.59         11/2" x 1" x 1/4"       25,000       7.38         2" x 1/2" x 1/4"       25,000       7.69         2" x 3/4" x 1/4"       25,000       8.08         2" x 1" x 1/4"       25,000       8.69         2"/2" x 1/2" x 1/4"       20,000       8.23         2"/2" x 1" x 1/4"       20,000       9.35         2"/2" x 2" x 1/4"       20,000       13.52         3" x 1/2" x 1/4"       12,000       8.80         3" x 3/4" x 1/4"       12,000       10.15         3" x 1" x 1/4"       12,000       10.89  | 1" x 1/2" x 1/4"  | 30,000  | \$5.80 |
| 11/2" x 1" x 1/4"       25,000       7.38         2" x 1/2" x 1/4"       25,000       7.69         2" x 3/4" x 1/4"       25,000       8.08         2" x 1" x 1/4"       25,000       8.69         2"/2" x 1/2" x 1/4"       20,000       8.23         2'/2" x 1" x 1/4"       20,000       9.35         2'/2" x 2" x 1/4"       20,000       13.52         3" x 1/2" x 1/4"       12,000       8.80         3" x 3/4" x 1/4"       12,000       10.15         3" x 1" x 1/4"       12,000       10.89  | 1" x 1" x <sup>1</sup> / <sub>4</sub> "   | 30,000  | 6.20   |
| 2" x 1/2" x 1/4" 25,000 7.69 2" x 3/4" x 1/4" 25,000 8.08 2" x 1" x 1/4" 25,000 8.69 2'/2" x 1" x 1/4" 20,000 8.23 2'/2" x 1" x 1/4" 20,000 9.35 2'/2" x 2" x 1/4" 20,000 13.52 3" x 1/2" x 1/4" 12,000 8.80 3" x 3/4" x 1/4" 12,000 10.15 3" x 1" x 1/4" 12,000 10.89  | 1 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> " | 25,000  | 6.59   |
| 2" x <sup>3</sup> / <sub>4</sub> " x <sup>1</sup> / <sub>4</sub> " 25,000 8.08<br>2" x 1" x <sup>1</sup> / <sub>4</sub> " 25,000 8.69<br>2'/ <sub>2</sub> " x <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> " 20,000 8.23<br>2'/ <sub>2</sub> " x 1" x <sup>1</sup> / <sub>4</sub> " 20,000 9.35<br>2'/ <sub>2</sub> " x 2" x <sup>1</sup> / <sub>4</sub> " 20,000 13.52<br>3" x <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> " 12,000 8.80<br>3" x <sup>3</sup> / <sub>4</sub> " x <sup>1</sup> / <sub>4</sub> " 12,000 10.15<br>3" x 1" x <sup>1</sup> / <sub>4</sub> " 12,000 10.89 | 1 <sup>1</sup> / <sub>2</sub> " x 1" x <sup>1</sup> / <sub>4</sub> "                            | 25,000  | 7.38   |
| 2" x 1" x 1/4" 25,000 8.69<br>2'/2" x 1/2" x 1/4" 20,000 8.23<br>2'/2" x 1" x 1/4" 20,000 9.35<br>2'/2" x 2" x 1/4" 20,000 13.52<br>3" x 1/2" x 1/4" 12,000 8.80<br>3" x 3/4" x 1/4" 12,000 10.15<br>3" x 1/4" 12,000 10.89   | 2" x 1/2" x 1/4"  | 25,000  | 7.69   |
| 2¹/₂" x ¹/₂" x ¹/₄"       20,000       8.23         2¹/₂" x 1" x ¹/₄"       20,000       9.35         2¹/₂" x 2" x ¹/₄"       20,000       13.52         3" x ¹/₂" x ¹/₄"       12,000       8.80         3" x ³/₄" x ¹/₄"       12,000       10.15         3" x 1" x ¹/₄"       12,000       10.89   | 2" x 3/4" x 1/4"  | 25,000  | 8.08   |
| 2¹/₂" x 1" x ¹/₄"       20,000       9.35         2¹/₂" x 2" x ¹/₄"       20,000       13.52         3" x ¹/₂" x ¹/₄"       12,000       8.80         3" x ³/₄" x ¹/₄"       12,000       10.15         3" x 1" x ¹/₄"       12,000       10.89   | 2" x 1" x 1/4"  | 25,000  | 8.69   |
| 2¹/₂" x 2" x ¹/₄"       20,000       13.52         3" x ¹/₂" x ¹/₄"       12,000       8.80         3" x ³/₄" x ¹/₄"       12,000       10.15         3" x 1" x ¹/₄"       12,000       10.89   | $2^{1}/_{2}^{11} \times ^{1}/_{2}^{11} \times ^{1}/_{4}^{11}$                                   | 20,000  | 8.23   |
| 3" x ¹/₂" x ¹/₄"     12,000     8.80       3" x ³/₄" x ¹/₄"     12,000     10.15       3" x 1" x ¹/₄"     12,000     10.89  | 2 <sup>1</sup> / <sub>2</sub> " x 1" x <sup>1</sup> / <sub>4</sub> "                            | 20,000  | 9.35   |
| 3" x 3/4" x 1/4" 12,000 10.15<br>3" x 1" x 1/4" 12,000 10.89  | 2 <sup>1</sup> / <sub>2</sub> " x 2" x <sup>1</sup> / <sub>4</sub> "                            | 20,000  | 13.52  |
| 3" x 1" x 1/4" 12,000 10.89   | 3" x 1/2" x 1/4"  | 12,000  | 8.80   |
| ,   | 3" x 3/4" x 1/4"  | 12,000  | 10.15  |
| 3" v 2" v 1/." 12 000 15 20   | 3" x 1" x 1/4"  | 12,000  | 10.89  |
| 0 1 2 1 74  | 3" x 2" x 1/4"  | 12,000  | 15.29  |

PRICE PER FLAPWHEEL





Mac Mop

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

Must be used with KLINGSPOR SMD 612 - 61/2" mounting plates.

| 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" v 4"         | 3400    | 1700 2500       | 294 52        | 225.20            |

**DON'T FORGET MOUNTING PLATES** 



| 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<br>RPM | VERY<br>FINE | MEDIUM  |
|--|----------------|--------------|---------|
| 2 <sup>3</sup> / <sub>8</sub> " x 2" x <sup>1</sup> / <sub>4</sub> " | 3,700          | \$13.76      | \$13.76 |
| 31/8" 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<br>Width x Spindle  | Maximum<br>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 |
| 31/8" x 2" x 1/4"  | 8,000          | 31.58   | 31.58   | 31.58   | 31.58   |
| 4" x 1 <sup>3</sup> / <sub>4</sub> " x <sup>1</sup> / <sub>4</sub> " | 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 nonwoven abrasive and flexible sandpaper

PLEASE NOTE: NCW 600 Finishing Flapwheels must be used with SMD 612 Mounting Plates on page 33.

PRICE PER FLAPWHEEL

| Diameter x Width                     | Maximum RPM | 180, 150, 100, 80 A/O |
|--------------------------------------|-------------|-----------------------|
| 6 <sup>1</sup> / <sub>2</sub> " 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.



### 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   | \$58.69    |
| CFV60004 | 6,000    | 6" x 1/2" x 1" | Fine SILICON CARBIDE   | Medium Deburring 8SF | 58.69      |
| CFV60002 | 6,000    | 6" x 1" x 1"   | Fine SILICON CARBIDE   | Medium Deburring 9SF | 82.16      |
| CFV60003 | 6,000    | 6" x 1" x 1"   | Fine SILICON CARBIDE   | Hard Deburring 9SF   | 82.16      |
| CFV60005 | 6,000    | 6" x 1" x 1"   | Medium SILICON CARBIDE | Medium Deburring 8SM | 82.16      |
| CFV80003 | 4,500    | 8" x 1/2" x 3" | Fine SILICON CARBIDE   | Medium Deburring 8SF | 69.84      |
| CFV80001 | 4,500    | 8" x 1" x 3"   | Fine SILICON CARBIDE   | Medium Deburring 8SF | 102.75     |
| CFV80002 | 4,500    | 8" x 1" x 3"   | Fine SILICON CARBIDE   | Hard Deburring 9SF   | 102.75     |
| CFV80006 | 4,500    | 8" x 1" x 3"   | Medium SILICON CARBIDE | Medium Deburring 8SM | 102.75     |
| CFV80007 | 4,500    | 8" x 2" x 3"   | Medium SILICON CARBIDE | Medium Deburring 8SM | 179.17     |
| CFV80008 | 4,500    | 8" x 2" x 3"   | Medium SILICON CARBIDE | Medium Deburring 9SF | 194.04     |
| CFV12001 | 3,000    | 12" x 1" x 5"  | Fine SILICON CARBIDE   | Hard Deburring 9SF   | 147.76     |
| CFV12003 | 3,000    | 12" x 1" x 5"  | Fine SILICON CARBIDE   | Medium Deburring 8SF | 147.76     |
| CFV12002 | 3,000    | 12" x 2" x 5"  | Fine SILICON CARBIDE   | Hard Deburring 9SF   | 262.65     |

#### **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  |
|-----------------------------|---------|--------|
| 6" Wheel Bushing 1" to 3/8" | CFVB001 | \$1.50 |
| 6" Wheel Bushing 1" to 1/2" | CFVB002 | 1.50   |
| 6" Wheel Bushing 1" to 3/4" | CFVB003 | 1.50   |
| 6" Wheel Bushing 1" to 5/8" | CFVB008 | 1.50   |

| Description                   | Item#   | Price   |   |
|-------------------------------|---------|---------|---|
| 8" Wheel Bushing 3" to 1"     | CFVB004 | \$73.47 |   |
| 8" Wheel Bushing 3" to 11/4"  | CFVB005 | 73.47   |   |
| 12" Wheel Bushing 5" to 1"    | CFVB006 | 104.28  |   |
| 12" Wheel Bushing 5" to 11/4" | CFVB007 | 104.28  | Ī |

### 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 Se                                |         | Series 632 |       | Series 811                                 | Series 821   |
|--|---------|------------|-------|--|--|
| 4 <sup>1</sup> / <sub>2</sub> " x 7/8" |         | \$22.44    |       | \$28.41                                    | \$27.01  |
| TYPE                                   | DENSITY | GRADE      | GRAIN | APPLICATION                                |  |
| Series 632                             | Medium  | Fine       | S/C   | is highly conformable                      | r fine finishing and polishing<br>s; provides clean bright stain<br>marks and removes slight<br>s. |
| Series 811                             | Hard    | Coarse     | A/O   | Highest stock remove most aggressive for o | al and edge-breaking capabi<br>deburring.  |
| Series 821                             | Hard    | Medium     | A/O   | •  | emoval while maintaining<br>vity; very durable on an edge  |



### Wire Brushes and Wheels

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.



\$38.16

#### CRIMPED CUP WHEEL (CC)



AVAILABLE IN: CARBON STEEL KM6009 3 x 5/8-11, .014, trim 11/8" \$11.95 MAX RPM 14,000 KM6010 4 x 5/8-11, .020, trim 11/8" \$18.26 MAX RPM 9,000

> 6 x 5/8-11, .014, trim 11/8" \$25.84 **MAX RPM 6.000**

#### **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

KM6042 4 x 5/8-11, .020, SS, Trim 1", F 3/8, 20 Knots,

MAX RPM 20.000



#### CRIMPED END BRUSH WHEEL (CEB)

AVAILABLE IN: CARBON STEEL KM6015

3/4 x 1/4, .020, Trim 11/8" \$7.56 MAX RPM 18.000

KM6016 1 x 1/4, .020, Trim 11/8"

MAX RPM 18,000 KM6018 3/4 x 1/4, .014, Trim 11/8"

MAX RPM 20,000



#### **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

KM6002 4 x 5/8-11, SS, .014 trim 1" MAX RPM 20,000

KM6003 6 x 5/8-11, CS, .020 Trim 11/4" MAX RPM 9,000



\$21.12

\$39.34

\$29.38

#### TWISTED KNOT CUP WHEEL (TKC)



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

\$9.20

\$8.09

KM6012 23/4 x 5/8-11, CS, .020 \$19.73 Trim 11/4", 18 Knots

MAX RPM 12,500 KM6013 23/4 x 5/8-11, SS, .020 \$29.47

Trim 11/4", 18 Knots MAX RPM 12,500

MAX RPM 9,000

4 x 5/8-11, CS, .020 \$28.27 Trim 17/8", 18 Knots

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

KM6004

KM6005

KM6006

KM6007

#### STRINGER BEAD TWIST WHEEL (SBTW)

MAX RPM 20,000

MAX RPM 20,000

MAX RPM 12.500

MAX RPM 12,500

MAX RPM 12,500

#### TWISTED KNOT END BRUSH (TKEB)

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

KM6017 3/4 x 1/4, CS, .020, Trim 11/8", 9 Knots

MAX RPM 20,000 \$14.64

KM6043 3/4 x 1/4, CS, .014, Trim 7/8". 9 Knots

MAX RPM 20.000 \$14.61 KM6044 3/4 x 1/4, SS, .020,

> Trim 7/8". 9 Knots MAX RPM 20,000 \$17.96

KM6045 11/8 x 1/4, CS, .014, Trim 7/8", 9 Knots, MAX RPM 18,000 KM6046 11/8 x 1/4, SS, .020, Trim 7/8", 9 Knots, MAX RPM 18,000



\$15.80 \$30.59

#### KM6008 7 x 5/8-11, SS, .020 trim 7/8" STEM MOUNTED

KNOT WHEEL (SMKW)

4 x 5/8-11, CS, .020 trim 7/8"

4 x 5/8-11, SS, .020 trim 7/8"

6 x 5/8-11, CS, .020 trim 1"

6 x 5/8-11, SS, .020 trim 7/8"

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

KM6034 3 x 1/4, CS, .014, 1/4 stem \$23.89

MAX RPM 25.000

KM6035 3 x 1/4, SS, .014, 1/4 stem \$39.97

MAX RPM 25,000



\$17.67

\$29.72

\$24.79

\$37.01

\$46.01

#### **NARROW FACE BRUSH** WHEEL (NFBW)

AVAILABLE IN: CARBON STEEL (CS) KM6030 6 x 5/8 - 1/2. .014.

Trim 11/8"

MAX RPM 6,000 \$10.53

KM6031 8 x 5/8, .014, Trim 13/4",

MAX RPM 4,500 \$26.12



#### **MEDIUM FACE BRUSH** WHEEL (MFBW)

AVAILABLE IN: CARBON STEEL (CS)

KM6032 6 x 5/8 - 1/2, .014,

Trim 11/8"

MAX RPM 6,000

KM6033 8 x 5/8, .014, Trim 13/4"

MAX RPM 4,500 \$49.86







### 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

\$22.77 KM6037 3 x 1/2 - 3/8, 5/8 face, .0118 CS, Trim 1"

MAX RPM 22,000 \$8.60 KM6038 3 x 1/2 - 3/8, 5/8 face,

KM6039

KM6040

.0118 SS, Trim 1"

MAX RPM 22,000 \$15.88 3 x 1/2 - 3/8, 5/8 face, .014 CS, Trim 1"

\$8.06 MAX RPM 22,000

3 x 1/2 - 3/8, 5/8 face, .014 SS, Trim 1"

\$15.21 MAX RPM 22,000

| <b>SCRATCH B</b> | RUSHES                  | Overall Size  | Brush Length | Row Config | Trim    | Price  |
|------------------|-------------------------|---------------|--------------|------------|---------|--------|
|                  | Curved Handle           |               |              |            |         |        |
|                  | KM30157 (CS)            | 14" x 7/8"    | 5-1/2"       | 3 x 19     | 1-3/16" | \$3.91 |
|                  | KM30167 (SS)            | 14" x 7/8"    | 5-1/2"       | 3 x 19     | 1-3/16" | 7.84   |
|                  | Plastic Handle          |               |              |            |         |        |
| 1                | KM30214 (SS)            | 7-1/2" x 1/2" | -            | 3 x 7      | 1/2"    | 3.82   |
| MARITA           | KM30270 (BRASS)         | 7-1/2" x 1/2" | -            | 3 x 7      | 1/2"    | 3.82   |
|                  | Wood Handle (not shown) |               |              |            |         |        |
|                  | KM30271                 | 7-1/2" x 1/2" | -            | 3 x 7      | 1/2"    | 3.75   |
|                  | Shoe Handle             |               |              |            |         |        |
|                  | KM30161 (CS)            | 10" x 1/18"   | 5"           | 4 x 6      | 1-3/16" | 4.26   |
|                  | KM30168 (SS)            | 10" x 1/18"   | 5"           | 4 x 6      | 1-3/16" | 8.70   |

# 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   | \$22.90 | POLISHPADWET0050400    |
| · Worr du          | 100  | 22.90   | POLISHPADWET0100400    |
|                    | 200  | 22.90   | POLISHPADWET0200400    |
|                    | 400  | 22.90   | POLISHPADWET0400400    |
|                    | 800  | 22.90   | POLISHPADWET0800400    |
|                    | 1500 | 22.90   | POLISHPADWET1500400    |
|                    | 3000 | 22.90   | POLISHPADWET3000400    |
| 4" Wet Set         | ALL  | 137.42  | POLISHPADSET400        |
| 4" Dry Pad         | 50   | 29.30   | KAIPOLISHPADDRY0050400 |
|                    | 100  | 29.30   | KAIPOLISHPADDRY0100400 |
|                    | 200  | 29.30   | KAIPOLISHPADDRY0200400 |
|                    | 400  | 29.30   | KAIPOLISHPADDRY0400400 |
|                    | 800  | 29.30   | KAIPOLISHPADDRY0800400 |
|                    | 1500 | 29.30   | KAIPOLISHPADDRY1500400 |
|                    | 3000 | 29.30   | KAIPOLISHPADDRY3000400 |
| 4" White Buff      |      | 22.90   | KAIBUFFPADWHITE400     |
| 4" Black Buff      |      | 22.90   | KAIBUFFPADBLACK400     |
| Rigid Backing Pad  |      | 24.34   | KAIPOLISHBKRPADRIG4    |
| Rubber Backing Pad |      | 22.13   | 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



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  $4 \frac{1}{2}$ " wide and  $5 \frac{1}{2}$ " long.

| Unit     | 320 Grit | 220 Grit | 180 Grit | 120 Grit |
|----------|----------|----------|----------|----------|
| 10 Pack  | \$14.86  | \$14.86  | \$14.86  | \$14.86  |
| Case 250 | 334.58   | 334.58   | 334.58   | 334.58   |

<sup>\*</sup> 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 11/4" thick.

| Unit     | 220 Grit | 180 Grit | 120 Grit | 100 Grit | 80 Grit | 60 Grit |
|----------|----------|----------|----------|----------|---------|---------|
| 10 Pack  | \$14.86  | \$14.86  | \$14.86  | \$14.86  | \$14.86 | \$14.86 |
| Case 250 | 334.58   | 334.58   | 334.58   | 334.58   | 334.58  | 334.58  |

<sup>\*</sup> 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  | \$14.86  | \$14.86  | \$14.86  | \$14.86  | \$14.86 | \$14.86 |
| Case 250 | 334 58   | 334.58   | 334.58   | 334.58   | 334.58  | 334.58  |



All Power Wheels have a center hole. Mandrels both have a 1/2" insertion end and either a 1/4'

or 5/16" shank.



# **Angle Flexible Sanding Pads**

| Unit     | 220 Grit | 180 Grit | 120 Grit |
|----------|----------|----------|----------|
| 10 Pack  | \$18.82  | \$18.82  | \$19.07  |
| Case 100 | 160.85   | 160.85   | 165.68   |

<sup>\*</sup> 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 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.

| Size & Description      | Recommended RPM | Maximum RPM | Price Per Wheel |
|-------------------------|-----------------|-------------|-----------------|
| 4" dia. with 1/2" arbor | 3,700 - 4,200   | 7,600       | \$11.02         |
| 6" dia. with 1/2" arbor | 2,500 - 3,000   | 5,000       | 18.93           |

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" | \$11.03 |
|------------------------|---------|
| Reusable arbor - 1/4"  | \$11.03 |



# 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                            | \$4.06       | \$61.31 (\$3.83 per roll @16 rolls) | \$335.19 (\$3.49 per roll @96 rolls) |
| MTAPE4309-100 | 1" X 55 yds                              | \$5.34       | \$40.56 (\$5.07 per roll @8 rolls)  | \$223.22 (\$4.65 per roll @48 rolls) |
| MTAPE4309-150 | 1 <sup>1</sup> / <sub>2</sub> " X 55 yds | \$7.83       | \$60.93 (\$7.62 per roll @8 rolls)  | \$327.97 (\$6.83 per roll @48 rolls) |
| MTAPE4309-200 | 2" X 55 yds                              | \$10.50      | \$59.23 (\$9.87 per roll @6 rolls)  | \$319.86 (\$8.89 per roll @36 rolls) |



### 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  | \$4.59       | \$49.47 / 12 rolls (\$4.12 per roll) | \$175.80 / 48 rolls (\$3.66 per roll) |
| MTAPE-PG27-150 | 11/2" x 60 yds | \$8.36       | \$45.16 / 6 rolls (\$7.53 per roll)  | \$160.57 / 24 rolls (\$6.69 per roll) |
| MTAPE-PG27-200 | 2" x 60 yds    | \$11.71      | \$63.25 / 6 rolls (\$10.54 per roll) | \$225.76 / 24 rolls (\$9.41 per roll) |



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  | \$58.45 |
| 4" x 10 yards  | 90.90   |
| 6" x 10 yards  | 116.91  |
| 9" x 10 yards  | 175.35  |
| 12" x 10 yards | 233.81  |



**Graphite Sticks** 

\$13.00 each

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

**Graphite Sticks** 



**Cleaning Sticks** 

Cleaning Sticks 8" x 2" x 2" \$20.07 each

# **Grease Sticks**

Grease Sticks \$13.42 each



Wide Belt Cleaning Pad

15" x 20" x 11/8" \$118.71 each

\*Must adjust machine to accomodate 1 1/8" thickness

# **Square Pads**

| Size                                 | Available Grits | Price Per Each |
|--------------------------------------|-----------------|----------------|
| 1" x 1" x 8 ply 8-32 eyelet          | 60,80,120       | \$1.89         |
| 1-1/2" x 1-1/2" x 1/2" 1/4-20 eyelet | 60,80           | 3.49           |
| 2" x 2" x 1/2" 1/4-20 eyelet         | 60,80           | 4.70           |
| 2" x 2" x 3/4" 1/4-20 eyelet         | 50,80           | 4.70           |
| 3" x 3" x 1/4" 1/4-20 eyelet         | 80              | 5.15           |
| 3" x 3" x 1/2" 1/4-20 eyelet         | 50,60,80        | 5.15           |

# **Cross Pads**

| Size                                     | Available Grits | Price Per Each |
|--|-----------------|----------------|
| 1-1/2" x 1-1/2" x 1/2" 8 ply 8-32 eyelet | 60,80,100,120   | \$1.81         |
| 2" x 2" x 1/2" 8 ply 8-32 eyelet         | 60,80,120       | 1.86           |
| 2" x 2" x 3/4" 8 ply 8-32 eyelet         | 60,80,120       | 1.86           |
| 2" x 2" x 1" 8 ply 8-32 eyelet           | 120             | 1.86           |
| 2-1/4" x 2-1/4" x 1/2" 8 ply 8-32 eyelet | 80              | 2.09           |
| 2-1/2" x 2-1/2" x 3/4" 8 ply 8-32 eyelet | 80,120          | 2.20           |
| 3" x 3" x 1" 8 ply 1/4-20 eyelet         | 60,80,120       | 2.57           |
| 4" x 4" x 1" 8 ply 1/4-20 eyelet         | 60,80,120       | 3.30           |
| 4" x 4" x 1-1/2" 8 ply 1/4-20 eyelet     | 80,120          | 3.30           |



# **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 grommeted 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.

**MAXIMUM RPM 4" = 3200** 



#### 4" DIAMETER

| 7 DIAMETER |                    |         | 4 DIAWLILL |                             |        |
|------------|--------------------|---------|------------|-----------------------------|--------|
| Grit       | Size & Description | Price   | Grit       | Size & Description          | Price  |
| 80 Grit    | ¹/₄" shank         | \$14.21 | 80 Grit    | ¹/₂" hole/no shank          | \$5.33 |
| 100 Grit   | ¹/₄" shank         | 14.21   | 100 Grit   | 1/2" hole/no shank          | 5.33   |
| 120 Grit   | ¹/₄" shank         | 14.21   | 120 Grit   | ¹/2" hole/no shank          | 5.33   |
| 150 Grit   | ¹/₄" shank         | 14.21   | 150 Grit   | $^{1}/_{2}$ " hole/no shank | 5.33   |
| 180 Grit   | ¹/₄" shank         | 14.21   | 180 Grit   | ¹/2" hole/no shank          | 5.33   |
| 220 Grit   | ¹/₄" shank         | 14.21   | 220 Grit   | 1/2" hole/no shank          | 5.33   |
|            |                    |         |            |                             |        |

# **Cloth Spiral Bands**



Spiral Bands for Oscillating Spindle Sanders PRICE PER PACK

| Diameter x Width  | Box Qty | 150 Grit | 100 Grit | 60 Grit |
|---|---------|----------|----------|---------|
| 1/2" x 41/2"  | 10      | \$17.42  | \$17.42  | \$17.60 |
| 3/4" x 4 <sup>1</sup> /2"   | 10      | 18.38    | 18.38    | 18.73   |
| 1" x 4 <sup>1</sup> / <sub>2</sub> "                              | 10      | 19.19    | 19.19    | 20.30   |
| 1 <sup>1</sup> / <sub>2</sub> " x 4 <sup>1</sup> / <sub>2</sub> " | 10      | 20.60    | 20.60    | 21.10   |
| 2" x 4 <sup>1</sup> / <sub>2</sub> "                              | 10      | 28.07    | 28.07    | 29.32   |
| 3" x 4 <sup>1</sup> / <sub>2</sub> "                              | 10      | 31.87    | 31.87    | 33.45   |
| <sup>1</sup> / <sub>2</sub> " x 9"                                | 10      | 36.96    | 36.96    | 37.28   |
| 3/4" x 9"   | 10      | 39.32    | 39.32    | 40.13   |
| 1" x 9"   | 10      | 41.23    | 41.23    | 42.97   |
| 1 <sup>1</sup> / <sub>2</sub> " x 9"                              | 10      | 44.08    | 44.08    | 45.64   |
| 2" x 9"   | 10      | 48.52    | 48.52    | 51.04   |
| 3" x 9"   | 10      | 55.82    | 55.82    | 58.99   |

PRICE PER BOX

|          |       |              |          |          | THIOLILITE |
|----------|-------|--------------|----------|----------|------------|
| Diameter | Width | Box Quantity | 150 Grit | 100 Grit | 60 Grit    |
| 1/2"     | 1/2"  | 25           | \$14.06  | \$14.06  | \$14.06    |
|          | 1"    | 25           | 14.45    | 14.45    | 14.45      |
|          | 11/2" | 25           |          | 15.65    | 15.65      |
|          | 2"    | 25           | 20.47    | 20.47    | 20.47      |
| 3/4"     | 1"    | 25           | 14.45    | 14.45    | 15.25      |
|          | 11/2" | 25           |          |          | 16.87      |
|          | 3"    | 25           |          | 33.86    |            |
| 1"       | 1"    | 25           | 15.25    | 15.25    | 15.65      |
|          | 11/2" | 25           | 17.27    | 17.27    | 17.66      |
|          | 2"    | 25           | 23.68    | 23.68    | 24.88      |
|          | 3"    | 25           | 34.92    | 34.92    | 36.13      |
| 11/2"    | 1"    | 25           | 15.65    | 15.65    | 16.46      |
|          | 11/2" | 25           | 17.27    | 17.27    | 18.47      |
|          | 2"    | 25           | 25.28    | 25.28    | 25.80      |
|          | 21/2" | 25           |          |          | 31.71      |
|          | 3"    | 25           | 37.33    | 37.33    | 38.53      |
| 2"       | 1"    | 25           | 17.27    | 17.27    | 17.66      |
|          | 11/2" | 25           | 20.47    | 20.47    | 22.07      |
|          | 2"    | 25           | 27.67    | 27.67    | 28.90      |
|          | 3"    | 25           | 41.35    | 41.35    | 43.35      |



# Rubber Drums For use with cloth spiral bands.

| Size   | MAX RPM       | PRICE PER DRUM | Size  | MAX RPM | PRICE PER DRUM |
|--|---------------|----------------|---|---------|----------------|
| 1/2" X 1/2" X 1/4"   | 30,000        | \$6.63         | 1" x 3" x <sup>1</sup> / <sub>4</sub> "   | 6,000   | \$12.49        |
| 1/2" X 1" X 1/4"   | 15,000        | 6.63           | 1 <sup>1</sup> / <sub>2</sub> " x 1" x <sup>1</sup> / <sub>4</sub> "                              | 14,000  | 8.71           |
| 3/4" x 1" x 1/4"   | 13,000        | 6.63           | 1 <sup>1</sup> / <sub>2</sub> " x 1 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> " | 10,000  | 9.62           |
| 3/4" X 11/2" X 1/4"  | 10,000        | 8.47           | 1 <sup>1</sup> / <sub>2</sub> " x 2" x <sup>1</sup> / <sub>4</sub> "                              | 7,000   | 14.34          |
| 3/4" x 2" x 1/4"   | 9,000         | 9.62           | 2" x 1" x 1/4"  | 11,000  | 9.62           |
| 1" x 1" x 1/4"   | 18,000        | 6.85           | 2" x 1 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> "                              | 8,000   | 14.36          |
| 1" x 1 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> " | 10,000        | 8.47           | 2" x 2" x 1/4"  | 6,000   | 19.13          |
| 1" x 2" x 1/4"   | 8,000         | 9.62           | 2" x 3" x 1/4"  | 4,000   | 21.33          |
| Common oizoo I   | iotod coll fo | or othere      |   |         |                |

Common sizes listed - call for others.

MAX RPM'S FOR SLEEVES CORRESPOND TO MAX RPM'S OF RUBBER DRUMS.

# Mounted Points Klingspor's Mounted Points have been devel-

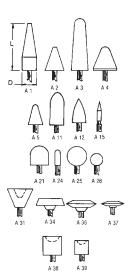
oped for safe, high performance use. Quality is consistently excellent, as you would expect from products with the Klingspor name. Over 100 different shapes and a variety of sizes, bonds,

grits, etc. are available to suit virtually any metal grinding need.



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

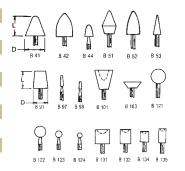
| Shape       | Diameter x Length  | Max RPM | Red | Blue | Price Per<br>Pack of 10 |
|-------------|--|---------|-----|------|-------------------------|
| A1          | <sup>3</sup> / <sub>4</sub> " x 2 <sup>1</sup> / <sub>2</sub> "          | 19,800  | 60  | 60   | \$58.44                 |
| A2          | 1" x 1 <sup>1</sup> / <sub>4</sub> "                                     | 38,200  | 60  | 60   | 35.74                   |
| A3          | 1" x 2 <sup>3</sup> / <sub>4</sub> "                                     | 16,100  | 60  | 60   | 63.38                   |
| A3          | 1" x 2 <sup>3</sup> / <sub>4</sub> "                                     | 16,100  | 36  | 36   | 63.38                   |
| A4          | 11/4" x 11/4"  | 30,560  | 60  | 60   | 33.78                   |
| A5          | <sup>3</sup> / <sub>4</sub> " x 1 <sup>1</sup> / <sub>8</sub> "          | 45,000  | 60  | 60   | 33.78                   |
| A11         | <sup>7</sup> / <sub>8</sub> " x 2"                                       | 19,860  | 60  | 60   | 43.04                   |
| A11         | <sup>7</sup> / <sub>8</sub> " x 2"                                       | 19,860  | 36  | 36   | 43.04                   |
| A12         | <sup>11</sup> / <sub>16</sub> " X <b>1</b> <sup>1</sup> / <sub>4</sub> " | 48,000  | 60  | 60   | 40.05                   |
| A14         | <sup>11</sup> / <sub>16</sub> " X <sup>7</sup> / <sub>8</sub> "          | 55,560  | 60  | 60   | 24.28                   |
| A15         | <sup>1</sup> / <sub>4</sub> " x <b>1</b> <sup>1</sup> / <sub>16</sub> "  | 72,750  | 60  | 60   | 32.60                   |
| A21         | 1" x 1"  | 34,500  | 60  | 60   | 27.64                   |
| A24         | 1/4" X 3/4"  | 76,500  | 60  | 60   | 23.32                   |
| A25         | 1" x 1"  | 35,620  | 60  | 60   | 27.64                   |
| A26         | 5/8" X 5/8"  | 61,120  | 60  | 60   | 24.69                   |
| A31         | 1³/8" x 1"   | 27,780  | 60  | 60   | 33.78                   |
| A32         | 1" x <sup>5</sup> / <sub>8</sub> "                                       | 38,000  | 60  | 60   | 24.28                   |
| A34         | 1 <sup>1</sup> / <sub>2</sub> " x <sup>3</sup> / <sub>8</sub> "          | 25,470  | 60  | 60   | 29.59                   |
| A36         | 1 <sup>5</sup> / <sub>8</sub> " x <sup>3</sup> / <sub>8</sub> "          | 23,520  | 60  | 60   | 33.78                   |
| A37         | 1 <sup>1</sup> / <sub>4</sub> " x <sup>1</sup> / <sub>4</sub> "          | 30,560  | 60  | 60   | 25.25                   |
| A38         | 1" x 1"  | 34,500  | 60  | 60   | 23.32                   |
| A39         | 3/4" X 3/4"  | 47,250  | 60  | 60   | 19.13                   |
| <b>^</b> (( | D!! 0 ! ! 0!   |         |     |      |                         |



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

| Shape | Diameter x Length   | Max RPM | Red | Blue | Price Per<br>Pack of 10 |
|-------|---|---------|-----|------|-------------------------|
| B41   | 5/8" X 5/8"   | 33,750  | 60  | 60   | \$24.69                 |
| B42   | 1/2" <b>X</b> 3/4"  | 33,750  | 60  | 60   | 23.32                   |
| B44   | <sup>7</sup> / <sub>32</sub> " X <sup>3</sup> / <sub>8</sub> "        | 68,400  | 60  | 60   | 21.54                   |
| B44   | <sup>7</sup> / <sub>32</sub> " <b>X</b> <sup>3</sup> / <sub>8</sub> " | 68,400  | 90  | 90   | 21.54                   |
| B45   | <sup>3</sup> / <sub>16</sub> " X <sup>5</sup> / <sub>16</sub> "       | 104,250 | 90  | 90   | 19.72                   |
| B51   | <sup>7</sup> / <sub>16</sub> " X <sup>3</sup> / <sub>4</sub> "        | 45,370  | 60  | 60   | 23.32                   |
| B52   | 3/8" X 3/4"   | 45,370  | 60  | 60   | 23.32                   |
| B53   | 1/4" X 5/8"   | 60,000  | 60  | 60   | 23.32                   |
| B91   | <sup>1</sup> / <sub>2</sub> " <b>X</b> <sup>5</sup> / <sub>8</sub> "  | 34,500  | 60  | 60   | 19.13                   |
| B96   | 1/8" X 1/4"   | 105,000 | 90  | 90   | 18.40                   |
| B97   | <sup>1</sup> / <sub>8</sub> " <b>X</b> <sup>3</sup> / <sub>8</sub> "  | 105,000 | 90  | 90   | 21.54                   |
| B97   | 1/8" <b>X</b> 3/8"  | 105,000 | 120 | 120  | 21.54                   |
| B98   | 3/ <sub>32</sub> " X 1/ <sub>4</sub> "                                | 105,000 | 90  | 90   | 24.69                   |
| B101  | <sup>5</sup> / <sub>8</sub> " $\chi$ <sup>11</sup> / <sub>16</sub> "  | 33,750  | 60  | 60   | 23.32                   |
| B103  | <sup>5</sup> / <sub>8</sub> " X <sup>3</sup> / <sub>16</sub> "        | 61,120  | 60  | 60   | 21.54                   |
| B121  | 1/2" <b>X</b> 1/2"  | 45,370  | 60  | 60   | 21.54                   |
| B122  | <sup>3</sup> / <sub>8</sub> " <b>X</b> <sup>3</sup> / <sub>8</sub> "  | 61,650  | 60  | 60   | 19.13                   |
| B123  | 3/16" <b>X</b> 3/16"  | 104,250 | 90  | 90   | 19.13                   |
| B124  | 1/8 <b>" X</b> 1/8 <b>"</b>   | 105,000 | 90  | 90   | 17.19                   |
| B131  | 1/2" X 1/2"   | 34,500  | 60  | 60   | 17.19                   |
| B132  | 3/8" X 1/2"   | 45,370  | 60  | 60   | 17.19                   |
| B134  | <sup>5</sup> / <sub>16</sub> " $\chi$ <sup>3</sup> / <sub>8</sub> "   | 61,650  | 60  | 60   | 17.19                   |
| B135  | 1/4" X 1/2"   | 60,000  | 60  | 60   | 17.19                   |





### Group "W" Plain Shapes









|       |   |            |         | *   |      |                      |
|-------|---|------------|---------|-----|------|----------------------|
| Shape | Diameter x Length   | Shank Size | Max RPM | Red | Blue | Price Per Pack of 10 |
| W142  | 3/ <sub>32</sub> " X 1/ <sub>4</sub> "                          | 1/8"       | 105,000 | 90  | 90   | \$15.39              |
| W142  | 3/ <sub>32</sub> " X <sup>1</sup> / <sub>4</sub> "              | 1/8"       | 105,000 | 120 | 120  | 15.39                |
| W144  | 1/8" X 1/4"   | 1/8"       | 105,000 | 60  | 60   | 15.39                |
| W145  | 1/8" X 3/8"   | 1/8"       | 105,000 | 60  | 60   | 17.19                |
| W146  | <sup>1</sup> / <sub>8</sub> " X <sup>1</sup> / <sub>2</sub> "   | 1/8"       | 105,000 | 60  | 60   | 17.19                |
| W152  | 3/16" X 1/4"  | 1/8"       | 105,000 | 60  | 60   | 15.39                |
| W153  | $^{3}/_{16}^{"}$ X $^{3}/_{8}^{"}$                              | 1/8"       | 80,850  | 60  | 60   | 17.19                |
| W154  | 3/16" X 1/2"  | 1/8"       | 70,500  | 60  | 60   | 17.19                |
| W160  | 1/4" X 1/4"   | 1/8"       | 81,370  | 60  | 60   | 15.39                |
| W162  | 1/4" X 3/8"   | 1/8"       | 68,400  | 60  | 60   | 17.19                |
| W163  | 1/4" X 1/2"   | 1/8"       | 60,000  | 60  | 60   | 17.19                |
| W164  | 1/4" X 3/4"   | 1/8"       | 45,900  | 60  | 60   | 17.79                |
| W175  | 3/8" X 3/8"   | 1/8"       | 54,000  | 60  | 60   | 17.19                |
| W176  | 3/8" X 1/2"   | 1/8"       | 45,370  | 60  | 60   | 17.19                |
| W178  | <sup>3</sup> / <sub>8</sub> " x 1"                              | 1/8"       | 26,250  | 60  | 60   | 19.13                |
| W179  | 3/8" x 11/4"  | 1/4"       | 45,750+ | 60  | 60   | 24.69                |
| W185  | <sup>1</sup> / <sub>2</sub> " X <sup>1</sup> / <sub>2</sub> "   | 1/8"       | 34,500  | 60  | 60   | 17.19                |
| W186  | 1/2" X 3/4"   | 1/8"       | 26,250  | 60  | 60   | 17.79                |
| W187  | 1/2" x 1"   | 1/8"       | 20,620  | 60  | 60   | 19.13                |
| W188  | 1/2" <b>x 1</b> 1/2"  | 1/4"       | 30,370+ | 60  | 60   | 29.59                |
| W189  | 1/2" x 2"   | 1/4"       | 24,000+ | 60  | 60   | 36.90                |
| W200  | 3/ <sub>4</sub> " X 1/ <sub>8</sub> "                           | 1/8"       | 50,930  | 60  | 60   | 17.19                |
| W204  | 3/4" X 3/4"   | 1/4"       | 18,900+ | 60  | 60   | 19.13                |
| W205  | 3/4" x 1"   | 1/4"       | 34,900+ | 60  | 60   | 21.54                |
| W206  | 3/4" x 11/4"  | 1/4"       | 28,720  | 60  | 60   | 24.28                |
| W208  | 3/4" x 2"   | 1/4"       | 18,750+ | 60  | 60   | 38.70                |
| W210  | <sup>7</sup> / <sub>8</sub> " x <sup>1</sup> / <sub>16</sub> "  | 1/8"       | 43,650  | 120 | 120  | 16.60                |
| W215  | 1" x 1/8"   | 1/8"       | 38,200  | 60  | 60   | 17.79                |
| W218  | 1" x 1/2"   | 1/4"       | 38,200+ | 60  | 60   | 19.13                |
| W219  | 1" x 3/4"   | 1/4"       | 35,100+ | 60  | 60   | 21.54                |
| W220  | 1" x 1"   | 1/4"       | 25,500+ | 60  | 60   | 23.32                |
| W221  | 1" x 1 <sup>1</sup> / <sub>2</sub> "                            | 1/4"       | 19,120+ | 60  | 60   | 32.60                |
| W222  | 1" x 2"   | 1/4"       | 15,900+ | 60  | 60   | 40.05                |
| W225  | 1 <sup>1</sup> / <sub>4</sub> " x <sup>1</sup> / <sub>4</sub> " | 1/4"       | 30,560+ | 60  | 60   | 21.54                |
| W235  | 1 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>4</sub> " | 1/4"       | 25,470+ | 60  | 60   | 23.32                |
| W236  | 1 <sup>1</sup> / <sub>2</sub> " x <sup>1</sup> / <sub>2</sub> " | 1/4"       | 25,470+ | 60  | 60   | 24.69                |
| W242  | 2" x 1"   | 1/4"       | 19,100+ | 60  | 60   | 36.90                |
|       |   |            |         |     |      |                      |

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 met-

als, 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.



DISCS



### <u>S</u>hank Pilot 4 Pilot Length Shank Length

Cartridge Rolls of 1" Length ......3/4" Pilot Length Cartridge Rolls of 1-1/2" Length .......1" Pilot Length Cartridge Rolls of 2" Length ......11/2" Pilot Length

# Cartridge Rolls

Item # Size Max RPM Grit Mandrel # **Description Price** CR703732 3/8" x 11/2" x 1/8" 25,000 60 2 Straight A/O \$55.19 3/8" x 11/2" x 1/8" 2 CR705036 25,000 80 Straight A/O 56.89

PRICE PER 100

CR707336 3/8" x 11/2" x 1/8" 25.000 120 2 Straight A/O 56.89 3/8" x 11/2" x 1/8" 25,000 CR711147 180 2 Straight A/O 60.39 CR706313 1/2" x 1" x 1/8" 25,000 60 1 Straight A/O 50.01 CR707617 1/2" x 1" x 1/8" 25,000 80 1 Straight A/O 51.77 1/2" x 1" x 1/8" 120 CR711471 25,000 Straight A/O 53.46 CR710652 1/2" x 1" x 1/8" 25,000 240 1 Straight A/O 55.19 40 2 CR707947 1/2" x 11/2" x 1/8" 25,000 70.73 Straight A/O 2 CR709187 1/2" x 11/2" x 1/8" 25,000 60 Straight A/O 68.98 CR710479 1/2" x 11/2" x 1/8" 25,000 80 2 70.73

Straight A/O 2 CR709813 1/2" x 11/2" x 1/8" 25,000 120 Straight A/O 70.73 CR700624 1/2" x 11/2" x 1/8" 25,000 180 2 75.90 Straight A/O CR704494 1/2" x 11/2" x 1/8" 25,000 240 2 Straight A/O 77.62 3 1/2" x 2" x 1/8" 25,000 60 Straight A/O 84.51 CR707308

CR708564 1/2" x 2" x 1/8" 25,000 80 3 Straight A/O 86.24 1/2" x 2" x 1/8" 120 3 87.98 CR707712 25,000 Straight A/O CR714235 3/4" x 11/2" x 1/8" 25,000 60 2 Straight A/O 117.30 25,000 2 CR713444 3/4" x 11/2" x 1/8" 80 Straight A/O 117.30 4 CR713317 3/4" x 11/2" x 1/4" 25,000 60 Straight A/O 117.30

4 CR713081 3/4" x 11/2" x 1/4" 25,000 80 Straight A/O 119.01 CR713077 3/4" x 11/2" x 1/4" 25,000 120 4 Straight A/O 122.47 CR713679 3/4" x 2" x 1/8" 25,000 100 3 Straight A/O 162.16 Straight A/O  $^{3}/_{4}$ " x 2" x  $^{1}/_{8}$ " 25,000 120 3 CR715682 162.16 CR707096 3/8" x 1" x 1/8" 25,000 60 Full Taper A/O 86.24

120 Full Taper A/O CR702229 3/8" x 1" x 1/8" 25,000 91.43 CR706036 3/8" x 1" x 1/8" 25,000 180 1 Full Taper A/O 91.43 2 25,000 50 Full Taper A/O 94.88 CR710094 3/8" x 11/2" x 1/8" 25,000 2 CR705509 3/8" x 11/2" x 1/8" 80 Full Taper A/O 94.88 2 CR706968 3/8" x 11/2" x 1/8" 25,000 120 Full Taper A/O 94.88

80

60

80

120

1

1

3

Full Taper A/O

Full Taper A/O

89.67

91.43

25,000

25,000

25,000

CR700973 1/2" x 1" x 1/8" 25,000 Full Taper A/O 94.88 36 2 105.23 CR710725 1/2" x 11/2" x1/8" 25,000 Full Taper A/O CR709653 1/2" X 11/2" X 1/8" 25,000 60 2 Full Taper A/O 100.05 CR710928 1/2" x 11/2" x 1/8" 25,000 80 2 Full Taper A/O 101.77

CR700939 1/2" x 11/2" x 1/8" 25,000 120 2 Full Taper A/O 101.77 CR704817 1/2" x 11/2" x 1/8" 25,000 180 2 Full Taper A/O 105.23 CR700667 25,000 60 3 Full Taper A/O 106.96 1/2" x 2" x 1/8" 1/2" x 2" x 1/8" 80 3 CR701974 25,000 Full Taper A/O 110.42

3/8" x 1" x 1/8"

1/2" x 1" x 1/8"

1/2" x 2" x 1/8"

CR708357

CR712772

CR702233

### Mandrels

| P | R | IC | F | Р | F | R | Λ   | Λ. | Δ | N  | n  | R | F | I |
|---|---|----|---|---|---|---|-----|----|---|----|----|---|---|---|
|   | п | IU | _ |   | ᆮ | п | I١٧ | 11 | н | I۷ | IU | П |   | L |

Full Taper A/O 112.13

| MANDREL# | ITEM#           | PILOT | PILOT<br>LENGTH | SHANK | SHANK<br>LENGTH | OVERALL<br>LENGTH | LIST<br>PRICE |
|----------|-----------------|-------|-----------------|-------|-----------------|-------------------|---------------|
| 1        | CRMANDREL700717 | 1/8"  | 3/4"            | 1/4"  | 11/4"           | 21/2"             | \$3.49        |
| 2        | CRMANDREL710190 | 1/8"  | 1"              | 1/4"  | 11/4"           | 23/4"             | 3.49          |
| 3        | CRMANDREL708875 | 1/8"  | 11/2"           | 1/4"  | 11/4"           | 31/4"             | 3.49          |
| 4        | CRMANDREL712584 | 1/4"  | 1"              | 1/4"  | 11/4"           | 3"                | 3.49          |



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.

# Heavyweight Plain Paper Discs - Non PSA

#### HEAVYWEIGHT PLAIN PAPER DISC AVAILABLE MATERIALS

PS 20 A/O F wt Paper AC 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

\* Add 10% to price shown

| Diameter       | Box Qty  | 100 Grit & Finer | 80 Grit | 60 Grit | 50 Grit | 40 Grit |  |  |  |  |
|----------------|--|------------------|---------|---------|---------|---------|--|--|--|--|
| 4"             | 50   | \$20.95          | \$22.55 | \$24.09 | \$26.42 | \$29.52 |  |  |  |  |
| 5"             | 50   | 28.73            | 31.84   | 34.97   | 38.86   | 42.74   |  |  |  |  |
| 6"             | 50   | 39.62            | 42.74   | 47.39   | 53.61   | 59.03   |  |  |  |  |
| 7"             | 50   | 59.03            | 63.72   | 70.72   | 78.46   | 86.23   |  |  |  |  |
| 8"             | 50   | 72.28            | 77.70   | 87.01   | 97.12   | 107.21  |  |  |  |  |
| 9"             | 50   | 93.99            | 101.01  | 113.46  | 125.07  | 138.29  |  |  |  |  |
| 10"            | 50   | 116.53           | 125.07  | 139.86  | 155.38  | 170.92  |  |  |  |  |
| 12"            | 50   | 170.92           | 184.90  | 205.86  | 227.63  | 251.70  |  |  |  |  |
| Ear intermedia | For intermediate gizes use port higher list price Call for availability of other sizes |                  |         |         |         |         |  |  |  |  |

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



# PS 21 Plain Paper Discs - Non PSA

| Diameter | Box Qty | 100 Grit & Finer | 80 Grit | 60 Grit | 40 Grit |
|----------|---------|------------------|---------|---------|---------|
| 4"       | 50      | \$25.17          | \$27.04 | \$28.91 | \$35.43 |
| 5"       | 50      | 34.51            | 38.22   | 41.97   | 51.26   |
| 6"       | 50      | 47.57            | 51.26   | 56.87   | 70.86   |
| 7"       | 50      | 70.86            | 76.43   | 84.85   | 103.49  |
| 8"       | 50      | 86.70            | 93.23   | 104.43  | 128.65  |
| 9"       | 50      | 112.81           | 121.21  | 136.12  | 165.95  |
| 10"      | 50      | 139.84           | 150.11  | 167.81  | 205.10  |
| 12"      | 50      | 205.10           | 221.88  | 247.01  | 302.06  |
|          |         |                  |         |         |         |

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\*\* A/Z 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

| Ρ | RI | CE | PΕ | R | BO) |
|---|----|----|----|---|-----|
|   |    |    |    |   |     |

| Diameter | Box Quantity | 100 Grit & Finer | 80 Grit | 60 Grit | 50 Grit | 40 Grit | 36 Grit | 24 Grit |
|----------|--------------|------------------|---------|---------|---------|---------|---------|---------|
| 4"       | 50           | \$26.42          | \$27.96 | \$29.52 | \$31.84 | \$33.40 | \$35.77 | \$40.40 |
| 5"       | 50           | 38.86            | 41.17   | 44.30   | 46.62   | 50.51   | 53.61   | 60.61   |
| 6"       | 50           | 54.37            | 57.51   | 61.39   | 66.04   | 70.72   | 75.37   | 85.44   |
| 7"       | 50           | 77.70            | 82.34   | 87.80   | 93.99   | 99.44   | 106.45  | 120.42  |
| 8"       | 50           | 98.66            | 103.27  | 111.08  | 118.84  | 126.64  | 135.19  | 153.05  |
| 9"       | 50           | 126.64           | 132.85  | 142.96  | 151.50  | 161.58  | 173.25  | 195.77  |
| 10"      | 25           | 78.07            | 81.96   | 88.59   | 94.00   | 100.22  | 107.21  | 121.20  |
| 12"      | 25           | 113.85           | 119.64  | 128.97  | 136.72  | 145.67  | 155.75  | 175.97  |

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

# 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 **Box Quantity** 100 Grit & Finer 60 Grit 40 Grit 31/2" 100 \$35.08 \$36.78 \$40.12 \$45.14 4" 100 35.08 36.78 40.12 45.14 41/2" 100 35.08 36.78 40.12 45.14 5" 100 35.08 36.78 40.12 45.14 6" 100 45.98 48.13 51.80 67.49 8" 50 40.66 42.73 46.03 59.61

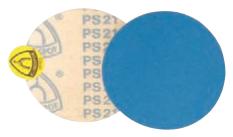


#### PS 21 ALUMINA ZIRCONIA F WEIGHT PAPER

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  |
|----------|--------------|------------------|---------|---------|----------|
| 5"       | 100          | \$87.23          | \$91.19 | \$95.15 | \$107.08 |
| 6"       | 100          | 126.87           | 132.81  | 140.75  | 158.58   |
| 7"       | 100          | 182.39           | 194.29  | 204.19  | 229.98   |
| 8"       | 50           | 116.00           | 122.93  | 128.88  | 141.77   |
| 9"       | 50           | 147.71           | 156.60  | 165.54  | 186.37   |
| 10"      | 50           | 181.38           | 193.28  | 204.19  | 229.98   |
| 12"      | 25           | 133.31           | 140.75  | 149.68  | 168.03   |



### FP 73W EXTRA-LUBE ALUMINUM OXIDE STEARATE FILM

PRICE PER BOX

| Diameter | Box Quantity | 320 Grit & Finer |
|----------|--------------|------------------|
| 5"       | 100          | \$52.45          |
| 6"       | 100          | 67.84            |



### VP 73W EXTRA-LUBE ALUMINUM OXIDE STEARATE LATEX PAPER

PRICE PER BOX

| Diameter | Box Quantity | 100 Grit & Finer | 80 Grit |
|----------|--------------|------------------|---------|
| 5"       | 100          | \$40.35          | \$42.31 |
| 6"       | 100          | 51.30            | 60.75   |
| 8"       | 50           | 46.77            | 49.15   |



### PS 29 ACT ALUMINUM OXIDE OPEN COAT F WEIGHT PAPER

| PRIC | E PER | BOX |
|------|-------|-----|
|------|-------|-----|

| Diameter | Box Qty | 100 Grit & Finer | 80 Grit | 60 Grit | 40 Grit |
|----------|---------|------------------|---------|---------|---------|
| 5"       | 100     | \$72.72          | \$75.98 | \$79.29 | \$89.23 |
| 6"       | 100     | 105.74           | 110.68  | 117.30  | 132.18  |
| 7"       | 100     | 152.00           | 161.90  | 170.16  | 191.64  |
| 8"       | 50      | 96.68            | 102.43  | 107.40  | 118.12  |
| 9"       | 50      | 123.08           | 130.50  | 137.94  | 155.31  |
| 10"      | 50      | 151.17           | 161.10  | 170.16  | 191.64  |
| 12"      | 25      | 111.10           | 117.30  | 124.76  | 140.03  |



### PS 36 ALUMINA ZIRCONIA STEARATE C/D WEIGHT PAPER

| PRI | CE | PER | BOX |
|-----|----|-----|-----|
|-----|----|-----|-----|

| Diameter | Box Qty | 100 Grit & Finer | 80 Grit | 60 Grit | 40 Grit | 36 Grit |
|----------|---------|------------------|---------|---------|---------|---------|
| 5"       | 100     | \$43.15          | \$45.21 | \$49.30 | \$55.47 |         |
| 6"       | 100     | 56.51            | 59.15   | 63.68   | 74.78   |         |
| 5"       | 50      |                  |         |         |         | \$32.97 |
| 6"       | 50      |                  |         |         |         | 43.80   |



### PS 14 SILICON CARBIDE WATERPROOF A/C WEIGHT LATEX PAPER

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

| Diameter | Box Qty | 220A & Finer | 180C Grit | 150C Grit | 120C Grit | 100C Grit | 80C Grit | 60C Grit   |
|----------|---------|--------------|-----------|-----------|-----------|-----------|----------|------------|
| 31/2"    | 100     | \$56.18      | \$57.83   | \$61.15   | \$64.43   | \$71.04   | \$74.33  | \$77.64    |
| 4"       | 100     | 56.18        | 57.83     | 61.15     | 64.43     | 71.04     | 74.33    | 77.64      |
| 5"       | 100     | 62.79        | 67.76     | 69.38     | 72.72     | 79.29     | 85.91    | 89.23      |
| 6"       | 100     | 90.86        | 95.81     | 100.78    | 105.74    | 115.64    | 122.28   | 130.50     |
| 7"       | 100     | 135.47       | 145.39    | 152.00    | 156.95    | 175.10    | 185.06   | 196.63     |
| 8"       | 50      | 87.56        | 91.69     | 96.68     | 102.43    | 116.50    | 117.30   | 123.08     |
| 9"       | 50      | 110.68       | 116.48    | 122.28    | 129.72    | 141.27    | 149.50   | 158.58     |
| 10"      | 50      | 136.30       | 143.73    | 151.17    | 159.42    | 174.30    | 185.06   | 195.76     |
| 12"      | 25      | 99.95        | 105.32    | 111.10    | 116.50    | 127.63    | 135.47   | 143.33     |
|          |         |              |           |           |           |           | PRI      | CE 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          | \$74.37        | \$78.85 |
| 6"       | 100          | 108.58         | 114.53  |

### **LS 312 ALUMINUM OXIDE** DRY-LUBE JF WEIGHT CLOTH

PRICE PER BOX

| Diameter | Box Quantity | 120 - 220 Grit |
|----------|--------------|----------------|
| 5"       | 50           | \$61.47        |
| 6"       | 50           | 89.29          |



# 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

| Diameter | Box Qty | 100 Grit & Fin | er 80 Grit | 60 Grit | 50 Grit | 40 Grit | 36 Grit | 24 Grit |
|----------|---------|----------------|------------|---------|---------|---------|---------|---------|
| 3"       | 50/Box  | \$42.09        | \$43.63    | \$46.00 | \$47.53 | \$49.82 | \$49.86 | \$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  | 109.80  | 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  | 258.53  | 290.45  |
| 10"      | 25/Box  | 118.87         | 126.26     | 133.66  | 141.84  | 150.42  | 157.28  | 178.70  |
| 12"      | 10/Box  | 69.70          | 73.88      | 78.41   | 83.08   | 88.08   | 93.31   | 104.65  |
| 20"      | 10/Box  | 197.82         | 209.65     | 222.45  | 235.70  | 249.88  | 264.61  | 297.30  |
| 24"      | 10/Box  | 27.69          | 29.20      | 31.27   | 33.23   | 35.29   | 37.80   | 42.72   |
| 30"      | 5/Box   | 41.68          | 43.91      | 47.31   | 50.35   | 53.67   | 57.50   | 65.18   |

#### **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 |
| CC 4114 | A/7 V ut Clath            |

\* 24-36 Grit - Add 47% to price shown 40-60 Grit - Add 39% to price shown 80 Grit & Finer - Add 33% to price shown



# **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

| Diameter | Roll Quantity | 100 Grit & Finer | 80 Grit |
|----------|---------------|------------------|---------|
| 3 1/2"   | 100           | \$35.08          | \$36.78 |
| 5"       | 100           | 35.08            | 36.78   |
| 6"       | 100           | 45.98            | 48.13   |

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



# Waterproof Paper PSA Disc Rolls

PS 14 SILICON CARBIDE WATERPROOF A/C WEIGHT LATEX PAPER

Easily dispense these discs for your wet applications.

PRICE PER ROLL

| Diame | ter Roll Quantity | 220 Grit & Finer | 180 Grit | 150 Grit | 120 Grit | 100 Grit | 80 Grit | 60 Grit |
|-------|-------------------|------------------|----------|----------|----------|----------|---------|---------|
| 5"    | 100               | \$62.92          | \$66.25  | \$69.94  | \$73.46  | \$80.26  | \$84.49 | \$88.68 |
| 6"    | 100               | 90.44            | 95.53    | 100.62   | 105.72   | 115.69   | 122.67  | 130.25  |

PRICE PER ROLL

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

# **DISCS**

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

### PS 33 ALUMINUM OXIDE STEARATE PAPER

| Dia.  | Box Quantity | 100 & Finer | 80 Grit | 60 Grit | 40 Grit |  |
|-------|--------------|-------------|---------|---------|---------|--|
| 31/2" | 100          | \$35.08     | \$36.78 | \$40.12 | \$45.14 |  |
| 4"    | 100          | 35.08       | 36.78   | 40.12   | 45.14   |  |
| 41/2" | 100          | 35.08       | 36.78   | 40.12   | 45.14   |  |
| 5"    | 100          | 35.08       | 36.78   | 40.12   | 45.14   |  |
| 6"    | 100          | 45.98       | 48.13   | 51.80   | 67.49   |  |
| 8"    | 50           | 40.66       | 42.73   | 46.03   | 59.61   |  |



### VP 73W EXTRA-LUBE ALUMINUM OXIDE STEARATE LATEX PAPER

| PRICE PER | В | OX |  |
|-----------|---|----|--|
|-----------|---|----|--|

PRICE PER BOX

| Diameter | Box Quantity | 100 Grit & Finer | 80 Grit |  |
|----------|--------------|------------------|---------|--|
| 5"       | 100          | \$40.35          | \$42.31 |  |
| 6"       | 100          | 51.30            | 60.75   |  |
| 8"       | 50           | 46.77            | 49.15   |  |



### FP 73W EXTRA-LUBE ALUMINUM OXIDE STEARATE FILM

PRICE PER BOX

| Diameter Box Quantity |     | 320 Grit & Finer |  |
|-----------------------|-----|------------------|--|
| 5"                    | 100 | \$52.45          |  |
| 6"                    | 100 | 68.70            |  |



### PS 36 ALUMINA ZIRCONIA STEARATE HEAVY PAPER

PRICE PER BOX

| Dia. | Box Qty | 100 Grit & Finer | 80 Grit | 60 Grit | 40 Grit | 36 Grit |  |
|------|---------|------------------|---------|---------|---------|---------|--|
| 5"   | 100     | \$43.15          | \$45.21 | \$49.30 | \$55.47 | \$65.94 |  |
| 6"   | 100     | 56.51            | 59.15   | 63.68   | 74.78   | 87.60   |  |



### PS 29 ALUMINUM OXIDE OPEN COAT HEAVY PAPER ACT

PRICE PER BOX

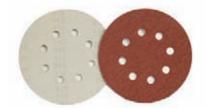
| Dia.  | Box Qty | 100 Grit & Finer | 80 Grit | 60 Grit | 40 Grit |
|-------|---------|------------------|---------|---------|---------|
| 41/2" | 50      | \$49.59          | \$52.06 | \$53.72 | \$59.45 |
| 5"    | 51      | 49.59            | 52.06   | 53.72   | 57.77   |
| 6"    | 50      | 70.23            | 75.19   | 79.31   | 89.25   |



### CS 310 XF ALUMINUM OXIDE CLOTH

PRICE PER BOX

| Dia. | Box Qty | 60 Grit | 40 Grit  | 36 Grit  | 24 Grit  |
|------|---------|---------|----------|----------|----------|
| 5"   | 50      | \$93.05 | \$106.10 | \$112.55 | \$127.30 |
| 6"   | 50      | 128.95  | 148.60   | 158.30   | 179.50   |



### CS 710 XF HEAT TREATED ALUMINUM OXIDE CLOTH

PRICE PER BOX

| Dia. | Box Quantity | 100 - 240 Grit | 80 Grit |
|------|--------------|----------------|---------|
| 5"   | 50           | \$45.96        | \$48.21 |
| 6"   | 50           | 57.91          | 60.13   |



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

### PS 14 SILICON CARBIDE WATERPROOF A/C WEIGHT LATEX PAPER PRICE PER BOX

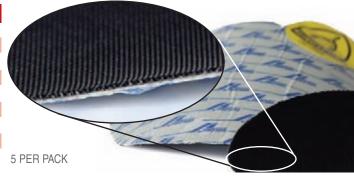
| Dia. | Box Qty | 220 Grit & Finer | 180 Grit | 150 Grit | 120 Grit | 100 Grit | 80 Grit | 60 Grit |
|------|---------|------------------|----------|----------|----------|----------|---------|---------|
| 5"   | 100     | \$62.79          | \$67.76  | \$69.39  | \$72.72  | \$79.29  | \$85.92 | \$89.23 |
| 6"   | 100     | 90.44            | 95.53    | 100.62   | 105.72   | 115.69   | 122.67  | 130.25  |
| 11"  | 25      | 139.94           | 147.45   | 163.08   | 163.08   | 163.08   | 189.63  | 208.59  |



## 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 guick and that easy!

| Disc Size    | List Price |
|--------------|------------|
| 5" x No Hole | \$14.32    |
| 6" x No Hole | 16.37      |
| 5" x 5 Hole  | 14.32      |
| 5" x 8 Hole  | 14.32      |
| 5" x 16 Hole | 14.32      |
| 6" x 6 Hole  | 16.37      |
| 6" x 8 Hole  | 16.37      |
| 5" x 9 Hole  | 14.32      |
| 6" x 9 Hole  | 16.37      |



# **Backing Pads**

FJ41515 .....\$15.90 5" x No Hole Hook & Loop • fits Porter Cable 332 Random Orbit Sander (\*also fits PC 333, 334, 335) 5" x 5 Hole Hook & Loop FJ41515-H5 .....\$15.90 • fits Porter Cable 333, 334, 335 Random Orbit Sanders

5" x No Hole Hook & Loop FJ70515 .....\$15.90

• fits Dynabrade models 59005, 59020, 59035, 56815, 56850

5" x No Hole PSA FJ70515V.....\$24.13

• fits Chicago Pneumatic Models CP-3575-SP, CP-3565-SH • fits all Dynabrade models 59005, 59020, 59035, 56815, 56850

FJ70515-H5.....\$15.90 5" x 5 Hole Hook & Loop

• fits Dynabrade models 59008, 59023, 59038, 59009, 59024, 59039, 56818, 56879,175,241,5564

• fits Sioux Model 790VV • fits Chicago Pneumatic Model CP-3575-VP

5" x 8 Hole Hook & Loop FJ43515-H8 .....\$18.17 • fits Porter Cable and Dewalt

FJ48495-H9 .....\$21.51 5" x 9 Hole Hook & Loop

• fits Festool

FJ70516 .....\$18.17 6" x No Hole Hook & Loop

• fits Dynabrade Models 59010, 59025, 59040, 56826, 56859



#### 6" x No Hole PSA

- fits Chicago Pneumatic Models CP-3576-SP, CP-3566-SH, CP-9164, 763, 763P, 787,707P
- 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.....\$18.17

FJ70516V.....\$28.18

 fits Dynabrade models 59013, 59028, 59043, 59014, 59029, 59044, 56829, 56888. 56830, 56863 • fits Chicago Pneumatic Models CP-3576-VP, 760, 760P, 761, 784P

6" x 9 Hole Hook & Loop

FJ78596-H9 .....\$23.55

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 longestlasting 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.

\*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.



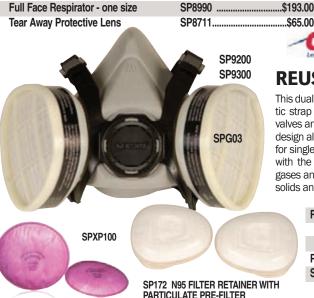
| Diameter | Box Quantity | 3500-2800 Grit | 2500-1800 Grit | 1500-1200 Grit | 1200-800 Grit |
|----------|--------------|----------------|----------------|----------------|---------------|
| 3"       | 5            | \$3.08         | \$3.08         | \$3.08         | \$3.08        |
| 5"       | 5            | 4.81           | 4.81           | 4.81           | 4.81          |
| 6"       | 5            | 6.12           | 6.12           | 6.12           | 6.12          |

\* 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.

# **Respiratory Protection**

### **FULL FACE RESPIRATOR**

This full face respirator is from the trusted people at Gerson – true leaders in respirators and breathing protection. It offers a one size fits all design with a wraparound lens for optimal field of vision and is made using a comfortable elastomeric material – ideal for long term use. The full size nose cup reduces the chances of fogging common with other full face respirators. All cartridges are interchangeable with Gerson half mask respirators. Mask includes a free lanyard!





### **REUSABLE HALF MASK RESPIRATOR**

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. Cartridges sold separately.

| Reusable Half Mask Respirator |                          | P100 Particulate Cartridges |  |
|-------------------------------|--------------------------|-----------------------------|--|
| Medium                        | SP9200\$18.00            | SPG70\$14.51                |  |
| Large                         | SP9300\$18.00            | PANCAKE P100 OV             |  |
| P95 Organic Va                | apor/Acid Gas Cartridges | SPXP100\$8.00               |  |
| SPG03                         | \$14.30                  |                             |  |

# 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.

SP8211 .....\$30.13

· Available in two sizes: Medium and Large.

Disposable Half Mask Respirator Medium



SPG95P P95 PARTICULATE

SP8211 SP8311



# 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? 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. The New SP194O particulate respirator offers the same level of protection, but may be used in the presence of oils and/or oil mists.

| N95 Particulate Pre-Filter - sold 10 per pack           | SPG95P\$19.22 |
|---|---------------|
| Filter Retainer for use with N95 Particulate Pre-Filter | SP172\$4.30   |
| N95 Particulate Respirator                              | SP1730\$21.20 |

| N95 Particulate Respirator w/Valve | SP1740\$23.00 |
|------------------------------------|---------------|
| R95 Particulate Respirator w/Valve | SP1940\$31.50 |
| Nuisance Dust Mask                 | SP1501\$12.00 |

# **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 nontoxic; 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 | SPJ3165\$98.56  |



### **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 |



### **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 |



### **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 |

# Eyewear

### MIRAGE Lightweight • Full Wraparound Frame

These top-notch wrap-around glasses offer contemporary styling Provides 99.9% UVA 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 Amber Lens      |
|----------------------------|----------------|------------------------|
| Mirage Clear Anti-Fog Lens | SPMR0111\$3.25 | Mirage Light Blue Lens |
| Mirage Smoke Lens          | SPMR0120\$2.85 | Mirage Clear Lens 10%  |
| Mirage Indoor/Outdoor Lens | SPMR0190\$3.10 | Mirage Indoor/Outdoor  |
|                            |                |                        |

| 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 |

### **RAD-SEQUEL**

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

| BDIBNS                                  | ZE7.1+ MIETS ANSI Meets ANSI |  |  | 7 |
|---|------------------------------|--|--|---|
| ended Wear                              | AF<br>MHOS                   | 99.9%                                  |  | 3 |
| o suit your appli-<br>nifications bring | Anti-Fog coating.            | Provides 99.9% UVA and UVB protection. |  |   |

| 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 |

### 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, INDOOR/OUTDOOR | SPATS90\$3.75 |



### **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 |



### TITAN GLASSES

• Lightweight Frame

| Titan Clear Lens | SPTT0110\$3.90 |
|------------------|----------------|
| Titan Smoke Lens | SPTT0120\$4.68 |





### TYPHOON GLASSES

• Lightweight • Extended Brow

| Typhoon Clear Lens          | SPTY0110\$5.00 |
|-----------------------------|----------------|
| Typhoon Indoor/Outdoor Lens | SPY0190\$6.00  |

### SHEATH GLASSES

Sheath Over the Glasses One Piece Frame • Ratcheting Temples

| Sheath Clear Lens SP | SH610\$5.30 |
|----------------------|-------------|
|----------------------|-------------|





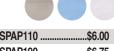


Provides 99.9% UVA Available wand UVB protection. Available w

# **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 |



### **GALAXY GLASSES**

- Adjustable Temples
- · One Piece Lens with Brow







**GALAXY CLEAR LENS** SPGX0110 .... ..\$1.95





### BARRICADE GOGGLE

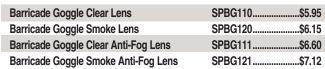
Barricade Goggle • Light, Compact • Soft Rubber Frame

Adjustable Elastic Head Strap





Available with Anti-Fog coating.





### **CHIEF GLASSES**

Chief Over the Glasses One Piece Frame





**Chief Clear Lens** SP360C ..... ..\$2.35

# **Head and Face**

### 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        |

### **SPRAY SOCKS**

HARD HATS

ANSI Z89.1 requirement for impact resistance. Available in either white or yellow, KLINGSPOR hard hats offer a comfortable 4-point web suspen-

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



Yellow Hard Hat SPGHR4Y.....\$14.00



| Headgear with faceshield                      | SPHG400\$14.50  |
|---|-----------------|
| Replacement faceshield clear Meets ANSI Z87.1 | SPV40815\$7.00  |
| Polycarbonate face shield                     | SPV40815C\$9.25 |

# 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-fitsall" 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: 101/21

Leather Work Gloves SP663 .....\$4.45

### **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



# Work Gloves

**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  | \$18.00 |
|----------------------------|-------------|---------|
| Diack Sable Welaling Glove | or biroable | 1 0.00  |



### PIGSKIN TIG WELDING GLOVE

The thin, but very strong and durable design makes these gloves the perfect choice for Precision Welding Applications where fingertip sensitivity is necessary. This glove features: Grain Pigskin Palm and Back, Sewn with Keylar® thread, 4" leather cuff, Reinforced leather thumb strap, For TIG (Tungsten Inert Gas) Welding

| Tig Welding Glove - Medium | SP0129M\$21.75  |
|----------------------------|-----------------|
| Tig Welding Glove - Large  | SP0129L\$21.75  |
| Tig Welding Glove - XLarge | SP0129XL\$21.75 |



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# QT     | Y PER CANISTER |
|--------------------------------|--------------|----------------|
| LARGE                          | LATEX17002   | 100\$14.25     |
| EXTRA LARGE                    | LATEX17003   | 100\$14.25     |
|                                |              |                |
| BLUE NITRILE GLOVE             |              |                |
| - 5 MIL POWDER FREE            | ITEM# QT     | Y PER CANISTER |
| LARGE                          | NITRILE18002 | 100\$17.46     |
| EXTRA LARGE                    | NITRILE18003 | 100\$17.46     |
|                                |              |                |
| BLACK NITRILE                  |              |                |
| <b>GLOVE 6 MIL POWDER FREE</b> | ITEM#        | QTY PER BOX    |
| 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         | ITEM#        | QTY PER BOX    |
| MEDIUM                         | LATEX6602    | 50\$25.75      |
| LARGE                          | LATEX6603    | 50\$25.75      |

LATEX6604



**EXTRA LARGE** 

50 .....\$25.75

# Work Gloves

### **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 | SP2011XL\$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\$4.15  |
|-------------------------------------|----------------|
| Latex Coated Gripping - Medium      | SP1791M\$4.15  |
| Latex Coated Gripping - Large       | SP1791L\$4.15  |
| Latex Coated Gripping - Extra Large | SP1791XL\$4.15 |

### 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 |
|----------------|-----------|---------|
| Large          | SP2041L   | \$25.75 |
| Extra Large    | SP2041XL  | \$25.75 |
| GENERAL KEVLAR |           |         |
| Medium         | SP2041KM  | \$48.00 |
| Large          | SP2041KL  | \$48.00 |
| Extra Large    | SP2041KXL | \$48.00 |







# SAFETY POWERTOOLS REFERENCE

# Dynorbital Spirit®

#### **FEATURES** KLINGSPOR PRODUCTS

- 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.!

- 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

# ynorbital 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.

### 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 PS/ | A 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 Most Aggressive General Sanding Ultra Fine Sanding 3/8" 3/16" 3/32"

**Call For Pricing** 

| FEATURES        | KLINGSPOR PRODUCTS                    |
|-----------------|---------------------------------------|
| Comfort handle  | • Kling-On® (Hook & Loop) Paper Discs |
| 18 SCFM @ 90psi | PSA Paper Discs                       |

• 18 SCFM @ 90psi • Non-Vacuum to Vacuum Conversion Kits available

 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.

| 5" 56883 56818 56853       | <b>Pad Diameter</b> | 3/8 Orbit Models | 3/16 Orbit Models | 3/32 Orbit Models |
|----------------------------|---------------------|------------------|-------------------|-------------------|
| CII                        | 5"                  | 56883            | 56818             | 56853             |
| 6"   50893   50829   50802 | 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             |

SAFET

# **POWER TOOLS**

# **Dynorbital Silver Supreme**

#### · Steel cylinder and end plates increase motor efficiency.

- · Stay-tight threaded muffler.
- Single-piece lock ring.

**FEATURES** 

- Low Sound Levels. Muffler system reduces exhaust sound
- 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-Dynafile® 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  | Motor    | Motor  | Sound    | Abrasive Belt Size            | Maximum Air Flow CFM/SCFM (LPM) | Max. SFPM     | Weight     | Length       | Height     |
|--------|----------|--------|----------|-------------------------------|---------------------------------|---------------|------------|--------------|------------|
| Number | HP (W)   | RPM    | Level    | Inch (mm)                     |                                 | (SMPM)        | Pound (kg) | Inch (mm)    | 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



#### **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 &





PLATEN PADS CAN BE REPLACED. FOR DYNA11206

CONTACT ARM ORDER PLATEN PAD DYNA11109.

(3/4") WIDE PACKAGED FIVE PER PACK.

- · 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
- 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

### 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.

# 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



#### **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.





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



#### **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
- SMT Flapdisc
- NCD Power wheel
- Cut off 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.

### **DYNABRADE AUTHORIZED ACCESSORIES**

| PRODUCT |  | FEATURES  |  |
|---------|--|---|--|
|         | COMPOSITE DYNASWIVEL®<br>DYNA94300   | Swivels 360° at two pivot points     Improves tool maneuverability     Extends hose life  | 1/4" NPT thread size     Non-marring composite construction  |
|         | FLOW CONTROL DYNASWIVEL® DYNA95734 ALUMINUM HOUSING.   | • Finger tip air-flow control dial<br>• ¹/4" NPT  | Heavy-duty construction     Swivels 360° at two pivot points |
|         | COMPOSITE DYNASWIVEL® DYNA94407  |   |  |
|         | 1/2" NPT<br>FILTER/REGULATOR/LUBRICATOR<br>DYNA10681   | Cost-Effective Solutions for Air Systems     Unit has modular connections with mou  |  |
|         | SAFETY TYPE MODEL DYNAJET<br>IN-LINE BLOW GUN<br>DYNA94467                                       | <ul> <li>Reduces line pressure down to 30 psi</li> <li>Keep work pieces and workstations cle</li> <li>Durable, aluminum construction</li> <li>Mounts permanently between coupler &amp;</li> </ul>         | Purge lines of water and contaminants                        |
| P       | WHEEL INFLATION TOOL DYNA94465   | Controlled inflation/deflation of pneumatic wheels     Fits ¹/₄" air hose   | A must with the Dynacushion®                                 |
| 6       | DYNACUSHION<br>DYNA94472<br>DYNA94508  | <ul> <li>Pneumatic wheel</li> <li>5" Diameter x 3 1/2" in width (3 1/2" x 1</li> <li>3 1/4" Diameter 3" width (3" x 10 11/16"</li> </ul>  | *  |
| Ba      | DYNABRADE GREASE AND<br>GREASE GUN   | Multi-purpose grease for all types of be  | •  |
|         | 10 OZ GREASE TUBE: DYNA95542<br>GREASE GUN: DYNA95541  | <ul> <li>High film strength; excellent resistance</li> <li>Workable range 0° to 300°</li> </ul>   | to water, steam, etc.  |
|         | GEAR OIL<br>DYNA95848  | • 2-1/2 ounce   |  |
|         | DYNABRADE AIR LUBE  AVAILABLE IN SIZES 4 ounces DYNA95821 1pint DYNA95842 and 1 gallon DYNA95843 | <ul> <li>Highly recommended in use of all Dyna</li> <li>Absorbs up to 10% of its weight in wate</li> <li>Prevents rust and formation of gum and</li> <li>Keeps pneumatic tools operating longe</li> </ul> | er<br>d sludge   |
|         | DYNABRADE MUFFLER INSERT<br>DYNA56027<br>30 PACK DYNA56054                                       | Highly recommended to keep contamin     For use in many Dynabrade pneumatic   |  |
| 0       | DYNABRADE MUFFLER CAP DYNA56028 DYNABRADE THREADED MUFFLER CAP DYNA69359                         | Standard rear muffler cap for all Dynab<br>Dynabrade pneumatic tools  | rade orbital sanders and many other                          |
|         | DYNABRADE 26mm WRENCH<br>DYNA50679   | Standard 26mm flat wrench to change   | pads on all palm style orbital sanders                       |
|         | QUICK CHANGE COUPLER<br>NPT FEMALE END<br>DYNA95674  | Durable nickel-plated steel and brass c     Single action quick connect by just inse     Pull back on sleeve of coupler for quick   | erting plug into coupler.                                    |
|         | 1/4" "PORTED" MALE TO MALE PLUG NPT MALE END DYNA95675   | <ul> <li>Ported design to prevent starving of the</li> <li>Provides up to twice the airflow compare</li> <li>Durable zinc-plated steel construction</li> </ul>  |  |

S

BELTS

DISCS

### 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 - Wet or dry silicon Carbide almost exclusively. Alumina Zirconia is useful also in rough applications. (PS 33/PS 73 Dry) (PS 14/FP73 Wet)

**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 Silicon Carbide (CS321X) is used for wet polishing.

**GRANITE/MARBLE/STONE** - Silicon Carbide almost exclusively. Usually ground wet to reduce dust and eliminate burning. (**Diamond Pads**)

**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, Aluminum Oxide or Ceramic Aluminum Oxide. Silicon Carbide is sometimes used for final finishing because a more consistent scratch pattern is achieved.

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

**TITANIUM** - Silicon Carbide, for polishing, Ceramic Aluminum Oxide, 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 and finish operations.

### **COATED ABRASIVE SAFETY GUIDELINES**

- 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.
- 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.
- 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.
- Never use a coated abrasive product which is cut, creased, or otherwise damaged. Observe proper storage conditions.
- 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 Planii | ng:          | Soft Metals:<br>Hard Metals: | CS 311, CS 416, CS 910, CS 811YY<br>CS 308, CS 310, CS 412, CS 411, CS 912, CS 811YY      | 24-40             |
| Wide Belts:     | Primary      | Soft Metals:<br>Hard Metals: | CS 311, CS 416, CS 910<br>CS 308, CS 310, CS 412, CS 411, CS 912                          | 40-60             |
|                 | Intermediate | Soft Metals:<br>Hard Metals: | CS 311, CS 416, CS 910<br>CS 308, CS 310, CS 412, CS 411, CS 912                          | 80-120            |
|                 | Finish       | Soft Metals:<br>Hard Metals: | CS 311, CS 416<br>CS 308, CS 310, CS 412, PS 20, PS 21                                    | 120 & Finer       |
| Edge Sanding:   |              | Soft Metals:<br>Hard Metals: | CS 311, CS 416<br>CS 308, CS 310, CS 412, CS 411  | 80-180            |
| Stroke Sanding  | <b>j</b> :   | Soft Metals:<br>Hard Metals: | CS 311, CS 631<br>CS 308, CS 310, CS 631  | 80-180            |
| Backstand:      |              | Grinding<br>Finishing        | CS 308, CS 310, CS 412, CS 311, CS 411, CS 910, CS 912, CS 811YY LS 309JF, LS 312, CS 631 | 7 24-60<br>80-400 |
| Portable Belts: |              | J                            | CS 308, CS 310, CS 311, CS 412, 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.



### ABRASIVE GRAIN SIZE

All KLINGSPOR coated abrasive products, with the exception of Alumina Zirconia, are graded by grit size using the FEPA or Pgrade scale. Some competitive products are graded according to the CAMI (Coated Abrasives Manufacturers Institute) scale. Pgraded 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.

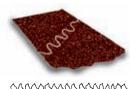
### ABRASIVE BELT JOINTS



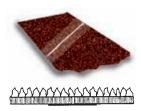
NO.1 Belt ends are overlapped with no grain removed off top of splice. Offers maximum protection against wear in the lap joints . For soft contact wheels, slack of belt operations and paper belts 150 and finer used in wide belt or lever stroke sanding. Standard joint for pump sleeves.



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.



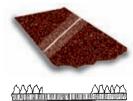
NO.3 Similar to Type 4 joint except the two belt ends are cut in an interlocking configuration, or zig-zag. Can be run in either direction. Available in grit size 80 or finer only. Designed specifically for glass grinding operations. Not for use on any paper belts.



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<br>(P-Grade) | CAMI | Finishing<br>Scale | Average Particle<br>Size In Inches | Micron<br>Scale μ | Comparable Grit<br>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 finalfinish sanding of wood. Very economical.

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

STEARATE - An additive that prevents loading when sanding soft resinous woods, after sealer coats and when working with soft ferrous or non-ferrous metals. Not an abrasive grain.

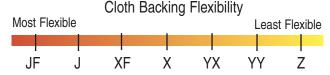
### ABRASIVE BACKINGS

#### **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
- Z A very heavy, stiff, polyester backing that is cross-weaved for segmented belts

### **PAPER**

- A very light weight paper typically for sheet use only or light PSA or hook & loop disc usage
- 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 wt latex infused paper provides strength and smoother finishing characteristics
- D A medium to heavy weight paper - typically for sheet use only or PSA or hook & loop disc usage
- Ε A heavy weight paper - typically for stroke or wide belt sanding F
  - A very heavy weight paper typically for stroke or wide belt sanding



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

FILM - 3 mil polyester film, lightweight, strong yet flexible for disc and power sheet sanding. Enhanced finishing characteristics.

#### Paper Backing Weight Lightest Heaviest Α В C D E F

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

| ALUMI  | NUM OXIDE         | ALUMINA | A ZIRCONIA       |
|--------|-------------------|---------|------------------|
| CLOTH  | PAPER             | CLOTH   | PAPER            |
| CS 308 | PS 10 - Garnet    | CS 409  | PS 21            |
| LS 309 | PS 20             | CS 411  | PS 36 - Stearate |
| CS 310 | PS 22             | CS 416  |                  |
| CS 311 | PS 26             | CS 565  |                  |
| LS 312 | PS 29             | CS 570  |                  |
| LS 313 | PS 31             | CS 811  |                  |
| CS 326 | PS 33 - Stearate  |         |                  |
| CS 341 | PS 73W - Stearate |         |                  |
| KL 361 | PL 36 - Stearate  |         |                  |
| KL 371 |                   |         |                  |
| CS 412 | VP 73W - Latex    |         |                  |
| CS 561 | FP 73W - Film     |         |                  |
| CS 710 |                   | SILICO  | N CARBIDE        |
|        |                   |         |                  |
|        |                   | CLOTH   | PAPER            |
| CFRAM  | IC ALUMINUM       | CS 320  | PS 14            |
|        | OXIDE             | CS 321  | PS 24            |
| CS 631 | CS 912            | CS 539  | PS 27            |
| CS 910 | FS 966            | CS 333  | PL 35 - Stearate |

### **BACKINGS** \* AVAILABLE IN MORE THAN ONE BACKING.

| A-WEIGHT | B-WEIGHT | C-WEIGHT | D-WEIGHT        |
|----------|----------|----------|-----------------|
| PS 10    | PS 33 *  | PS 14 *  | PS 27           |
| PS 14 *  | PS 73W * | PS 31 *  | PS 31 *         |
| PS 31 *  | PL 35    | PS 33 *  | PS 36 *         |
|          | PL 36    | PS 36 *  |                 |
|          |          | PS 73W * |                 |
|          |          | VP 73W   |                 |
| F-WEIGHT | J-WEIGHT | Y-WEIGHT | <b>Z-WEIGHT</b> |
| PS 20    | LS 309 * | CS 308   | CS 538          |
| PS 21    |          | CS 311   | CS 539          |
| PS 22    | X-WEIGHT | CS 320   |                 |
| PS 24    | CS 310 * | CS 326   | FIBRE           |
| PS 26    | CS 321   | CS 336   | CS 561          |
| PS 29    | CS 341   | CS 409   | CS 565          |
|          | CS 411 * | CS 411 * | CS 570          |
| J-FLEX   | CS 333   | CS 412   | FS 966          |
| LS 309 * |          | CS 416   |                 |
| LS 312   | X-FLEX   | CS 910   | FILM            |
| LS 313   | CS 310 * | CS 912   | FP 73W          |
| LS 318   | CS 710   | CS 811   |                 |
| KL 361   | CS 631   |          |                 |
| KL 385   |          |          |                 |
| CS 631   |          |          |                 |
|          |          |          |                 |

### **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: austenitec, marsenitic, 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 stone and masonry applications.

### **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

- TZ Hard: for maximum wheel life
- R/S Medium/Hard: for improved stock removal and life
- M/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
- For use on harder metals

### **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"

- 3/64" = .045"
- $\bullet$  1/16" = .063"





GRINDING DISCS

• 1/8" = .125"

 $\bullet$  5/32" = .156"

### 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.

A # 4 finish which has been buffed. A fine satin finish. #6

#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 polised 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 M21 plush light buffing M33 Specular

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

Wire brush or polish with coarse grit abrasive

M35 Brushed M36 Uniform Polish with 60 or 80 AO or SC

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### 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 nonwoven 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 nonwoven 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.

REFERENCE 🏠



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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 14: Waterproof Silicon Carbide, A and Cweight latex 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

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

**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, 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.

PS 27W: Silicon Carbide, open coat sterated on a D-weight backing for wide belts stroked sanding. Best suited for UV finishes or high gloss finishes in the woodworking industry.

**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 PS33 is found including bare wood, composite, marine and autobody. This material is not waterproof.

FP 73 W: Aluminum Oxide on a 3 mil poly film backing, FP73W is the latest generation in the PS73W material product line. It's semi-open coat grain covering and double layer of stearate make it the ideal product for longer life in woodworking, solid surface, auto & marine body and composite markets. The 3 mil poly film backing makes it tear resistant and enhances the finishing characteristics of this product. Available in P320 - 1500 (no 360 or 500) grits and available in sheets, rolls, Kling-on and PSA discs only, no belts. Performs best used wet.

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.

ACC 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 resinbonded with a dry lubricant to reduce heat and clogging on stainless steel, aluminum, and titanium grinding and finishing.

**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 Xweight 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 waterbased 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 of polishing 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 multibond 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, Yweight (Y), polyester-backings for use wet or dry on ferrous or non-ferrous metals. Also suitable for sanding hardwoods.

ACT 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 / 539: 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 631 JF/XF: Ceramic Aluminum Oxide on either X-flex backing or very flexible J-flex backing. Perfect for use on steels of all types but specifically for hard steels and under high grinding pressure. Added multibond lubricant enhances grinding properties and reduces heat build-up.

CS 910: 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.

CS 912: Ceramic Aluminum Oxide on our heaviest YY polyester backing for use on steels of all types and under high grinding pressure applications.

ACT FS 966 fibre disc: Advanced ceramic aluminum oxide fibre disc with ACT coating. Faster cutting and longer lasting on hard steels and metals. Lubricated 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 resinbonded 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. Wet running enhances its fine finishing characteristics.

#### **FLAPWHEELS**

NSF 600: 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 guickly 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 61/2" 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.



# **BONDED WHEELS REFERENCE**

### **GRINDING DISCS**

| DESCRIPTION  |        |       | General<br>Structural steel | High-tensile<br>Structural steel | <u> </u>   | leel        | s steel   | oy<br>ss steel         | oy<br>s steel           | s steel             | er<br>iction              | _                  | ction                    | cast iron | Spheroidal cast<br>Iron | le e       | le cast     | Ę        |         |        |       | F metals | ø.       | pec e                  |         |        | oue       |       |
|--|--------|-------|-----------------------------|----------------------------------|------------|-------------|-----------|------------------------|-------------------------|---------------------|---------------------------|--------------------|--------------------------|-----------|-------------------------|------------|-------------|----------|---------|--------|-------|----------|----------|------------------------|---------|--------|-----------|-------|
| <ul><li>= Best Application</li><li>= Also Suitable</li></ul> | Metals | Steel | General                     | High-ter<br>Structur             | Tool steel | Sheet steel | Stainless | Non-alloy<br>Stainless | High-alloy<br>Stainless | Stainless<br>Sheets | Container<br>Construction | Nudear<br>Industry | Pipeline<br>Construction | Grey ca   | Spheroi<br>Iron         | Cast Steel | Malleable ( | Aluminum | Bronze  | Copper | Brass | Other NF | Concrete | Reinforced<br>Concrete | Granite | Marble | Sandstone | Stone |
| A 24 Extra medium  | •      | 0     | 0                           | 0                                | 0          | 0           | 0         | 0                      | 0                       | 0                   | 0                         |                    | 0                        | 0         | 0                       | 0          | 0           |          |         |        | 0     | 0        |          |                        |         |        |           |       |
| A 24 Extra T hard  | •      | 0     | 0                           | 0                                | 0          | 0           | 0         | 0                      | 0                       | 0                   | 0                         |                    | 0                        | 0         | 0                       | 0          | 0           |          |         |        | 0     | 0        |          |                        |         |        |           |       |
| A 24 R Supra   |        | •     | •                           | •                                | •          | •           | 0         | 0                      | 0                       | 0                   | 0                         |                    | •                        | 0         | 0                       | 0          | 0           |          |         |        | 0     |          |          |                        |         |        |           |       |
| A 24 N Supra   |        |       |                             |                                  | 0          |             | •         | •                      | •                       | •                   | •                         |                    |                          |           |                         |            |             | 0        | 0       | 0      |       | 0        |          |                        |         |        |           |       |
| A 24 S Supra   |        | 0     | 0                           | 0                                |            | 0           |           |                        |                         |                     |                           |                    |                          | •         | •                       | •          | •           |          | $\circ$ |        | 0     |          |          |                        |         |        |           |       |
| A 46 N Supra   |        |       |                             |                                  |            |             |           |                        |                         |                     |                           |                    |                          |           |                         |            |             | •        | 0       | 0      |       | 0        |          |                        |         |        |           |       |
| C 24 R Supra   |        |       |                             |                                  |            |             |           |                        |                         |                     |                           |                    |                          | 0         |                         |            | 0           |          |         |        |       |          | •        | •                      | •       | •      | •         | •     |
| A 24 TX Special  |        | 0     | 0                           | 0                                | 0          | 0           |           |                        |                         | 0                   |                           |                    | •                        | •         | •                       | •          | •           |          |         |        |       |          |          |                        |         |        |           |       |
| A46VZ Special  | 0      | 0     | 0                           | 0                                | 0          | •           | •         | •                      | •                       | •                   | •                         | •                  | •                        |           |                         |            |             | •        | 0       | 0      | 0     |          |          |                        |         |        |           |       |
| A30M Special   | •      | •     | •                           | •                                | •          | •           | •         | •                      | •                       | •                   | •                         | •                  | •                        |           |                         |            |             |          |         |        |       |          |          |                        |         |        |           |       |
| TS 30 AP Special   | •      | •     | •                           | •                                | •          | •           | •         | •                      | •                       | •                   | •                         | •                  | •                        |           |                         |            |             |          |         |        |       |          |          |                        |         |        |           |       |

### **CUT-OFF WHEELS**

| DESCRIPTION  ■ = Best Application  □ = Also Suitable | Metals | Steel | General<br>Structural Steel | High-tensile<br>Structural Steel | Tool steel | Sheet steel | Stainless steel | Non-alloy<br>Stainless steel | High-alloy<br>Stainless steel | Stainless steel<br>Sheets | Container<br>Construction | Railway tracks | Nuclear industry | Grey cast iron | Spheroidal<br>Cast Iron | Cast Steel | Malleable<br>Cast Oron | Aluminum | Bronze | Copper | Brass | Other NF Metals | Asphalt | Concrete | Reinforced<br>Concrete | Pumice stone | Pantiles | Gas concrete | Granite | Tiles | Sand-Lime Bricks | Ceramics | Clinker | Fireday Brick | Stone | Clay Pipes | Exposed-Aggregate<br>Concrete |
|--|--------|-------|-----------------------------|----------------------------------|------------|-------------|-----------------|------------------------------|-------------------------------|---------------------------|---------------------------|----------------|------------------|----------------|-------------------------|------------|------------------------|----------|--------|--------|-------|-----------------|---------|----------|------------------------|--------------|----------|--------------|---------|-------|------------------|----------|---------|---------------|-------|------------|-------------------------------|
| A 24 Extra   | •      | 0     | 0                           | 0                                | 0          | 0           | 0               | 0                            | 0                             | 0                         | 0                         |                |                  | 0              | 0                       | 0          | 0                      |          |        |        | 0     | 0               |         |          |                        |              |          |              |         |       |                  |          |         |               |       |            |                               |
| C 24 Extra   |        |       |                             |                                  |            |             |                 |                              |                               |                           |                           |                |                  |                |                         |            |                        |          |        |        |       |                 |         | 0        | 0                      | 0            | 0        | 0            | 0       | 0     | 0                |          | 0 (     | 0             |       | 5          | 0                             |
| A 24 R Supra   |        | •     | •                           | 0                                | •          | •           | 0               | 0                            | 0                             | 0                         | 0                         |                |                  | 0              | 0                       | 0          | 0                      |          |        |        | 0     | 0               |         |          |                        |              |          |              |         |       |                  |          |         |               |       |            |                               |
| A 24 N Supra   |        |       |                             |                                  | 0          | •           | •               | •                            | •                             | •                         | •                         |                |                  | 0              | 0                       | 0          | 0                      | 0        | 0      | 0      |       | 0               |         |          |                        |              |          |              |         |       |                  |          |         |               |       |            |                               |
| A 24 S Supra   |        | 0     | 0                           | 0                                |            | 0           | 0               | 0                            | 0                             | 0                         |                           |                |                  | •              | •                       | •          | •                      |          | 0      |        | •     |                 |         |          |                        |              |          |              |         |       |                  |          |         |               |       |            |                               |
| A 36 R Supra   |        |       |                             |                                  |            |             | •               | 0                            | •                             | •                         |                           |                |                  |                |                         |            |                        |          |        |        | 0     |                 |         |          |                        |              |          |              |         |       |                  |          |         |               |       |            |                               |
| A 46 N Supra   |        |       |                             |                                  |            |             |                 |                              |                               |                           |                           |                |                  |                |                         |            |                        | •        | 0      | 0      | •     | 0               |         |          |                        |              |          |              |         |       |                  |          |         |               |       |            |                               |
| C 24 R Supra   |        |       |                             |                                  |            |             |                 |                              |                               |                           |                           |                |                  | 0              | 0                       | 0          | 0                      |          |        |        |       |                 |         | 0        | 0                      | 0            | 0        | 0            | 0       | 0     | 0                | 0        | 0 (     | 0             |       |            | 0                             |
| A 60 N Supra   |        |       |                             |                                  |            |             |                 |                              |                               |                           |                           |                |                  |                |                         |            |                        | •        | •      | •      | •     | 0               |         |          |                        |              |          |              |         |       |                  |          |         |               |       |            |                               |
| A 24 TZ Special                                      |        | •     | •                           | 0                                | 0          | 0           | 0               | •                            | •                             | •                         | •                         |                |                  |                |                         |            |                        |          |        |        |       |                 |         |          |                        |              |          |              |         |       |                  |          |         |               |       |            |                               |
| A 36 TZ Special                                      |        | •     | •                           | 0                                | 0          | •           | •               | 0                            | •                             | •                         |                           |                |                  |                |                         |            |                        |          |        |        |       |                 |         |          |                        |              |          |              |         |       |                  |          |         |               |       |            |                               |
| A 46 TZ Special                                      |        | •     | •                           | 0                                |            | •           | •               | 0                            | 0                             | •                         | •                         |                |                  |                |                         |            |                        |          | 0      |        | 0     | 0               |         |          |                        |              |          |              |         |       |                  |          |         |               |       |            |                               |
| A 60 TZ Special                                      |        | •     | •                           | 0                                |            | •           | •               | 0                            | •                             | •                         | •                         |                |                  |                |                         |            |                        |          |        |        |       |                 |         |          |                        |              |          |              |         |       |                  |          |         |               |       |            |                               |
| A 80 TZ Special                                      |        | 0     |                             |                                  |            | •           | •               | Ŏ                            | •                             | •                         | 0                         |                |                  |                |                         |            |                        |          |        |        |       |                 |         |          |                        |              |          |              |         |       |                  |          |         |               |       |            |                               |
| A 24 R Special                                       |        | •     | •                           | 0                                | •          | •           | 0               | 0                            | 0                             | 0                         | 0                         |                |                  |                | 0                       | 0          |                        |          |        | 0      | 0     |                 |         |          |                        |              |          |              |         |       |                  |          |         |               |       |            |                               |
| A 24 SZ Special                                      |        |       |                             |                                  |            |             |                 |                              |                               |                           |                           | •              |                  |                |                         |            |                        |          |        |        |       |                 |         |          |                        |              |          |              |         |       |                  |          |         |               |       |            |                               |
| C 24 RA Special                                      |        |       |                             |                                  |            |             |                 |                              |                               |                           |                           |                |                  |                |                         |            |                        |          |        |        |       |                 | •       | 0        | 0                      |              |          |              |         | 0     |                  |          | (       | 0 (           | 2 (   | 5          | 0                             |
| C 24 RT Special                                      |        |       |                             |                                  |            |             |                 |                              |                               |                           |                           |                |                  |                |                         |            |                        |          |        |        |       |                 |         |          |                        |              |          |              |         | -     |                  |          |         |               |       |            | _                             |
| A 30 N Special                                       | •      | 0     | 0                           | 0                                | 0          | 0           | 0               | 0                            | 0                             | 0                         |                           |                |                  | 0              | 0                       | 0          | 0                      | 0        | 0      | 0      | 0     | 0               |         |          |                        |              |          |              |         |       |                  |          |         |               |       |            |                               |
| A46VZ Special  |        |       |                             |                                  |            |             | •               | •                            | •                             |                           | •                         |                |                  |                |                         |            |                        | •        | Ō      |        |       |                 |         |          |                        |              |          |              |         |       |                  |          |         |               |       |            |                               |
| A24SX Special  |        |       |                             |                                  |            |             |                 |                              |                               |                           |                           | •              |                  |                |                         |            |                        |          |        |        |       |                 |         |          |                        |              |          |              |         |       |                  |          |         |               |       |            |                               |
| . 12 10/1 oposiai                                    |        |       |                             |                                  |            |             |                 |                              |                               |                           |                           | -              |                  |                |                         |            |                        |          |        |        |       |                 |         |          |                        |              |          |              |         |       |                  |          |         |               |       |            |                               |

|          | •= Best   | Application ○= Also Suit      | SHAPE      | Steel | Tool Steel | Sheet Metal | Stainless Steel | High Alloy<br>Stainless Steel | Stainless<br>Sheet Metal | Titanium | Aluminum | Bronze | Plastic | Paint/Lacquer | Wood | Surface Grinding | Weld Seams | Edge Grinding | Contours |
|----------|-----------|-------------------------------|------------|-------|------------|-------------|-----------------|-------------------------------|--------------------------|----------|----------|--------|---------|---------------|------|------------------|------------|---------------|----------|
| 띳        | SMT 618   | Alumina Zirconia              | Flat       | •     | •          | •           | •               | •                             | •                        |          |          |        |         |               |      | 0                | •          | •             | 0        |
| EXTRA    | SMT 619   | Alumina Zirconia              | Convex     | •     | •          | •           | •               | •                             | •                        |          |          |        |         |               |      | 0                | •          | •             | 0        |
| Г        | SMT 624   | Alumina Zirconia              | Convex     | •     | •          | •           | •               |                               | •                        |          |          |        |         |               |      |                  | 0          | •             | •        |
| SUPRA    | SMT 626   | Alumina Zirconia              | Convex     | •     | •          | •           | •               |                               | •                        | 0        |          |        |         |               |      | 0                | •          | •             | 0        |
| ₽R.      | SMT 627   | Aluminum Oxide                | Convex     |       | •          | •           |                 |                               |                          |          | •        | •      | 0       | 0             | •    |                  | 0          |               |          |
|          | - SMT 628 | Alumina Zirconia              | Flat       | •     | •          | •           | •               | •                             | •                        | 0        |          |        |         |               |      | •                | •          | 0             |          |
| Г        | SMT 630   | Alumina Zirconia Multibond    | Convex     | 0     | •          | 0           | •               | •                             | •                        |          | •        |        |         |               |      |                  | 0          |               |          |
|          | SMT 640   | Alumina Zirconia              | Flat       | 0     | •          | 0           | •               | •                             | •                        |          |          |        |         |               |      | •                | •          | 0             |          |
| SPE .    | SMT 650   | Alumina Zirconia              | Flat/Jumbo | •     | •          | •           | •               | •                             | •                        |          |          |        |         |               |      | •                | •          | 0             |          |
| SPECIAL  | SMT 656   | Alumina Zirconia              | Convex     | •     |            |             | •               |                               |                          |          |          |        |         |               |      |                  | •          | •             | 0        |
| <b>–</b> | SMT 696   | Ceramic Aluminum Oxide        | Convex     | 0     | 0          | 0           | •               | •                             | 0                        |          |          |        |         |               |      |                  |            |               |          |
| L        | SMT 800   | Non Woven                     | Convex     | •     | 0          | 0           | •               | 0                             | •                        |          | 0        | 0      |         |               |      |                  |            |               |          |
|          | SMT 850   | Aluminum Oxide Multibond / NW | Convex     | •     | 0          | 0           | •               |                               | •                        |          | 0        | 0      |         |               |      | •                |            | 0             |          |
|          | CMT 726   | Alumina Zirconia              | Convex     | •     | •          | •           | •               | •                             | •                        | 0        |          |        |         |               |      | 0                | •          |               | 0        |
|          | CMT 728   | Alumina Zirconia              | Flat       | •     | •          | •           | •               | •                             | •                        | 0        |          |        |         |               |      | •                | •          |               |          |
|          | CMT 730   | Multibond Alumina Zirconia    | Convex     | 0     | •          | 0           | •               | •                             | •                        |          | •        |        |         |               |      |                  | 0          | •             | •        |
|          | CMT 800   | Non-woven                     | Convex     | •     | 0          | 0           | •               | 0                             | •                        |          | 0        | 0      |         |               |      |                  |            |               |          |
|          | NCD 200   | Cleaning Wheel                | Flat       |       |            | 0           | 0               |                               |                          |          |          |        | 0       | •             |      | 0                | •          | •             | 0        |

### **TERMS AND CONDITIONS**

TERMS: Minimum \$50.00 order. Net 30 days from date of invoice. Invoices not paid within terms will be considered delinguent. 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 ABRA-SIVES 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.

### **GETTING THE MOST OUT OF** A GRINDING DISC

In our continuing effort to create a reference for our customers on troubleshooting information. please find our problems for this issue. If you clip this section or just keep this page in a file, it will build a troubleshooting reference for your use in the future. These check lists



are good regardless of what type of material you are sanding, as they are problem oriented in regard to the abrasive/machinery as opposed to workpiece based.

We run quite a few tests in our business against competitors grinding discs. Did you know that simple alterations could change the results dramatically? Here are a few things that can greatly affect the efficiency of a grinding disc.

- 1. SPEED: The maximum operational speed on the grinding disc must not be exceeded. This is an obvious point, but slower speeds can be equally as damaging. The grinding discs have been developed so that the maximum operational speed achieves the greatest efficiency. This means that this rated speed gives the most amount of stock removal compared with the amount of wheel wear. A lower selected speed has a considerable effect on the working manner of the discs because they will tend to "jump" or "bounce". This can cause the discs to become uneven in wear and abrasive grit is torn out of the bonding.
- 2. POWER: In order to maintain a high speed during the operation it is necessary to have plenty of power. In less expensive grinders, motors are designed below proper strength. This usually causes the wheel to slow down when pressure is applied to the work piece. Placing the blame on the grinding disc is a common error. Sometimes a disc with a softer bond will solve the problem because the cut rate will be much faster; however, the grinding disc will have a shorter life.
- 3. ANGLE: The angle that a grinding disc needs to be applied to the work piece is 35°. NOT 10-15°! Extended trials have shown that an applied angle of 35° provides the most efficient disc wear and amount of stock removal. By lowering the angle of application, a thin and tapered edge is created at the edge of the disc. If the grinding angle is then slightly altered the thin edge can no longer withstand the grinding pressure and breaks up.

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





protect hands









| Description    |                      |                      |                                 |                         |                |
|----------------|----------------------|----------------------|---------------------------------|-------------------------|----------------|
|                | Material<br>PS 10 A  | <b>Backing</b> Paper | Available Grits 80 - 220        | Properties Garnet       | PSA / Kling-On |
|                | PS 10 C              | Paper                | 100 - 150                       | Garnet                  |                |
|                | PS 10 D              | Paper                | 36 - 80                         | Garnet                  |                |
|                | PS 20 F              | Paper                | 60 - 240, 320, 400              | Garriet                 |                |
|                | PS 22 F <i>ACT</i>   | Paper                | 40 - 400                        | ANTISTATIC              |                |
|                | PS 26 F              | Paper                | 80 - 220                        | SUPER - ANTISTATIC      |                |
|                | PS 29 F <i>ACT</i>   | Paper                | 40 - 320, 400                   | ANTISTATIC              | PSA & Kling-On |
|                | PS 31 A              | Paper                | 80 - 220                        | 71171171110             | PSA & Kling-On |
|                | PS 31 C              | Paper                | 100 - 150                       |                         | PSA & Kling-On |
|                | PS 31 D              | Paper                | 36 - 80                         |                         | PSA & Kling-On |
|                | PS 33 B              | Paper                | 150 - 240, 320, 400 - 600       | STEARATE                | PSA & Kling-On |
|                | PS 33 C              | Paper                | 40, 60 - 120                    | STEARATE                | PSA & Kling-On |
|                | PL 36 B              | Paper                | 80 - 320, 400                   | STEARATE                | PSA & Kling-On |
|                | PS 73 BW             | Paper                | 150 - 320, 400 - 1500           | STEARATE                | PSA & Kling-On |
|                | PS 73 CW             | Paper                | 80 - 120                        | STEARATE                | PSA & Kling-On |
|                | VP 73 CW             | Latex                | 80 - 320                        | STEARATE                | PSA & Kling-On |
|                | FP 73 W              | Film                 | 320, 400, 600 - 1500            | STEARATE                | PSA & Kling-On |
| ŏ              | CS 308 YX            | Cloth                | 40, 60 - 180, 240, 400          | 0.2/                    |                |
| ALUMINUM OXIDE | LS 309 JF            | Cloth                | 60 - 400                        |                         |                |
| Z              | LS 309 J             | Cloth                | 60 - 500                        |                         | PSA            |
| <u>≥</u>       | LS 309 XH            | Cloth                | 40 - 150                        |                         |                |
| A              | CS 310 XF            | Cloth                | 40 - 240                        | Dynafile Material       |                |
|                | CS 310 X             | Cloth                | 24, 36 - 600                    | •                       | PSA & Kling-On |
|                | CS 311 YX <i>ACT</i> | Cloth                | 50 - 220                        | ANTISTATIC              | PSA            |
|                | CS 311 Y <i>ACT</i>  | Cloth                | 36, 40                          | ANTISTATIC              | PSA            |
|                | LS 312 JF            | Cloth                | 80 - 320, 400                   | Multibond Lubricant     |                |
|                | LS 313 JF            | Cloth                | 80 - 240, 320                   | Multibond Lubricant     |                |
|                | LS 318 JF <i>ACT</i> | Cloth                | 80 - 180                        |                         |                |
|                | CS 326 YX            | Cloth                | 80, 120, 180, 240, 320, 600     | Agglomerate, Waterproof |                |
|                | CS 341 X             | Cloth                | 80 - 320, 400, 500              | Waterproof              |                |
|                | KL 361 JF            | Cloth                | 40, 60 - 240, 320, 400 - 600    | Shop Roll               |                |
|                | KL 371               | Cloth                | 40 - 240, 320                   | Medium cotton           |                |
|                | KL 385 JF            | Cloth                | 40 - 320, 400, 600              | Shop Roll               |                |
|                | CS 412 YX            | Cloth                | 40 - 180, 240                   |                         |                |
|                | CS 412 Y             | Cloth                | 24, 36                          |                         |                |
|                | CS 561               | Vulcanized fibre     | 16, 24, 36 - 150, 220, 240, 320 |                         |                |
|                | CS 710 XF            | Cloth                | 80 - 180, 240                   | Heat treated            | Kling-On       |



| Description    |           | Coating | Bonding<br>agent | Waterproof |   | S     | Short and long belts | Dynafile Belts | Wide belts | Fibre discs | Strips/Sheets | S     |
|----------------|-----------|---------|------------------|------------|---|-------|----------------------|----------------|------------|-------------|---------------|-------|
| Des            | Туре      | Coa     | Bondir           | Wat        | Application   | Rolls | Sho                  | Dyr            | Wie        | Fib         | Stri          | Discs |
|                | PS 10 A   |         | R                |            | Wood  | -     | -                    | -              | -          | -           | •             | -     |
|                | PS 10 C   | •       | R                |            | Wood  | -     | -                    | -              | -          | -           | •             | -     |
|                | PS 10 D   | •       | R                |            | Wood  | -     | -                    | -              | -          | -           | •             | -     |
|                | PS 20 F   | •       | R                |            | Metal, Wood   | -     | •                    | -              | •          | -           | -             | -     |
|                | PS 22 F   | •       | R                |            | Metal, Wood   | •     | •                    | -              | •          | -           | -             | •     |
|                | PS 26 F   | 0       | R                |            | Wood  | -     | •                    | -              | •          | -           | -             | -     |
|                | PS 29 F   | 0       | R                |            | Wood  | •     | •                    | -              | •          | -           | -             | •     |
|                | PS 31 A   | 0       | R                |            | Metal, Wood   | -     | -                    | -              | -          | -           | •             | •     |
|                | PS 31 C   | 0       | R                |            | Metal, Wood   | -     | -                    | -              | -          | -           | •             | •     |
|                | PS 31 D   | 0       | R                |            | Metal, Wood   | -     | -                    | -              | -          | -           | •             | •     |
|                | PS 33 B   | •       | R                |            | Paint/Varnish/Primer, Wood                                    | •     | -                    | -              | -          | -           | •             | •     |
|                | PS 33 C   | •       | R                |            | Paint/Varnish/Primer, Wood                                    | •     | -                    | -              | -          | -           | •             | •     |
|                | PL 36 B   | 0       | R                |            | Paint/Varnish/Primer, Wood                                    | •     | -                    | -              | -          | -           | •             | •     |
|                | PS 73 BW  | •       | R                |            | Metal, Fiberglass, Paint/Varnish/Primer, Wood, Plastic/Rubber | •     | -                    | -              | -          | -           | •             | •     |
|                | PS 73 CW  | •       | R                |            | Metal, Fiberglass, Paint/Varnish/Primer, Wood, Plastic/Rubber | •     | -                    | -              | -          | -           | •             | •     |
| Щ              | VP 73 CW  | •       | R                |            | Metal, Fiberglass, Paint/Varnish/Primer, Wood, Plastic/Rubber | •     | -                    | -              | -          | -           | •             | •     |
| X              | FP 73 W   | •       | R                | 1          | Metal, Fiberglass, Paint/Varnish/Primer, Wood, Plastic/Rubber | -     | -                    | -              | -          | -           | •             | •     |
| ALUMINUM OXIDE | CS 308 YX |         | R                |            | Metal, Wood   | •     | •                    | •              | •          | -           | -             | -     |
|                | LS 309 JF |         | R                |            | Metal, Wood   | •     | •                    | -              | -          | -           | -             |       |
| $\equiv$       | LS 309 J  |         | R                |            | Metal, Wood   | •     | •                    | -              | -          | -           | -             | •     |
|                | LS 309 XH | •       | R                |            | Metal, Wood   | -     | •                    | -              | -          | -           | -             | -     |
| 4              | CS 310 XF |         | R                |            | Metal, Wood   | -     | •                    | •              | -          | -           | -             | -     |
|                | CS 310 X  | •       | R                |            | Metal, Wood   | •     | •                    | -              | •          | -           | -             | •     |
|                | CS 311 YX | 0       | R                |            | Metal, Wood   | •     | •                    | -              | •          | -           | -             | •     |
|                | CS 311 Y  | 0       | R                |            | Metal, Wood   | •     | •                    | -              | •          | -           | -             | •     |
|                | LS 312 JF | •       | R                |            | Metal, Stainless Steel, Wood                                  | •     | •                    | -              | -          | -           | -             | •     |
|                | LS 313 JF | •       | R                |            | Metal, Stainless Steel, Wood                                  | •     | •                    | -              | -          | -           | -             | -     |
|                | LS 318 JF | 0       | R                |            | Metal, Wood   | -     | •                    | -              | -          | -           | -             | -     |
|                | CS 326 YX |         | R                | 1          | Metal, Stainless Steel  | -     | •                    | -              | •          | -           | -             | -     |
|                | CS 341 X  |         | R                | 1          | Metal, Stainless Steel  | -     | •                    | -              | •          | -           | -             | -     |
|                | KL 361 JF | •       | R                |            | Metal, Wood   | •     | -                    | -              | -          | -           | •             | -     |
|                | KL 371    | •       | G                |            | Metal   | •     | -                    | -              | -          | -           | -             | -     |
|                | KL 385 JF | •       | R                |            | Metal, Wood   | •     | -                    | -              | -          | -           | •             | •     |
|                | CS 412 YX | •       | R                | ✓          | Metal, Wood   | •     | •                    | •              | •          | -           | -             | -     |
|                | CS 412 Y  | •       | R                | ✓          | Metal, Wood   | •     | •                    | •              | •          | -           | -             | -     |
|                | CS 561    | •       | R                |            | Metal   | -     | -                    | -              | -          | •           | -             | -     |
|                | CS 710 XF | •       | R                |            | Metal, Wood   | •     | •                    | •              | -          | -           | -             | •     |

| Description  | Material             | Backing          | Available Grits              | Properties          | PSA / Kling-On |
|--|----------------------|------------------|------------------------------|---------------------|----------------|
|  | PS 14 A              | Paper            | 220, 240, 320, 400 - 2000    | Wet/Dry             | PSA & Kling-On |
|  | PS 14 C              | Paper            | 60 - 180                     | Wet/Dry             | PSA & Kling-On |
|  | PS 19 E <i>ACT</i>   | Paper            | 12, 16, 20, 30 - 120         |                     |                |
|  | PS 24 F              | Paper            | 80, 120 - 320, 400, 500, 600 | ANTISTATIC          |                |
| ARB  | PS 27 DW             | Paper            | 180 - 600                    | STEARATE ANTISTATIC |                |
| Ö  | PL 35 B              | Paper            | 80 - 320, 400                | STEARATE            | PSA & Kling-On |
| 6  | CS 320 Y             | Polyester        | 40, 60 - 120, 180            |                     |                |
| SILICON CARBIDE  | CS 321 X             | Cotton           | 80 - 320, 400, 500, 800      | Waterproof          |                |
| S  | CS 333 X             | Cotton           | 24, 36, 40, 60 - 150, 240    |                     | PSA            |
|  | CS 333 JF <i>ACT</i> | Cloth            | 180, 240, 320                |                     |                |
|  | CS 539 Z             | Polyester        | 36 - 180                     | ANTISTATIC          |                |
|  |                      |                  |                              |                     |                |
|  | PS 21 F <i>ACT</i>   | Paper            | 40, 60 - 240, 320, 400       |                     | PSA            |
|  | PS 36 C              | Paper            | 60 - 220                     | STEARATE            | PSA & Kling-On |
|  | PS 36 D              | Paper            | 36, 40                       | STEARATE            | PSA & Kling-On |
| ≝  | CS 409 YX            | Cloth            | 60 - 120                     | Multibond lubricant |                |
| <u>N</u>   | CS 409 Y             | Cloth            | 36, 40, 50                   | Multibond lubricant |                |
| <u> </u>   | CS 411 X             | Cloth            | 24, 36 - 80, 120             |                     | PSA            |
| ΑZ   | CS 411 YX            | Cloth            | 80, 120                      |                     |                |
| Ę  | CS 411 Y             | Cloth            | 24, 36 - 60                  |                     |                |
| LUMINA ZIRCONIA  | CS 416 YX            | Cloth            | 60 - 120                     |                     |                |
| A  | CS 416 Y             | Cloth            | 24, 36 - 50                  |                     |                |
|  | CS 565               | Vulcanized fibre | 24, 36, 50 - 100             |                     |                |
|  | CS 570               | Vulcanized fibre | 24, 36, 50 - 120             | Multibond lubricant |                |
|  | CS 811 YY            | Cloth            | 24, 36 - 60                  |                     |                |
|  |                      |                  |                              |                     |                |
|  | CS 910 Y             | Cloth            | 24, 36, 60                   | Multibond lubricant |                |
| S<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N | CS 912 Y             | Cloth            | 36, 50 - 180                 |                     |                |
| CERAMIC<br>ALUMINUM<br>OXIDE   | FS 966               | Vulcanized fibre | 24, 36 - 80                  | Multibond lubricant |                |
| A A  | CS 631 JF            | Cloth            | 80 - 120, 180, 240, 320      | Multibond lubricant |                |
|  | CS 631 XF            | Cloth            | 60 - 120                     | Multibond lubricant |                |



| Description               | Туре      | Coating | Bonding<br>agent | Waterproof | Application  | Rolls | Short and long belts | <b>Dynafile Belts</b> | Wide belts | Fibre discs | Strips/Sheets | Discs |
|---------------------------|-----------|---------|------------------|------------|--|-------|----------------------|-----------------------|------------|-------------|---------------|-------|
|                           | PS 14 A   | •       | R                | ✓          | Glass & Stone, Paint/Varnish/Primer, Plastic/Rubber        | •     | -                    | -                     | -          | -           | •             | •     |
|                           | PS 14 C   |         | R                | 1          | Glass & Stone, Paint/Varnish/Primer, Plastic/Rubber        | •     | -                    | -                     | -          | -           | •             | •     |
| ш                         | PS 19 E   | 0       | R                |            | Wood Floor Sanding   | •     | -                    | -                     | -          | -           | -             | •     |
| <u></u>                   | PS 24 F   | •       | R                |            | Metal, Paint/Varnish/Primer, Plastic/Rubber                | •     | •                    | -                     | •          | -           | -             | -     |
| ARE                       | PS 27 DW  | 0       | R                |            | Wood Finishes, UV Finishes                                 | -     | -                    | -                     | •          | -           | -             | -     |
| 0                         | PL 35 B   | 0       | R                |            | Paint/Varnish/Primer                                       | •     | -                    | -                     | -          | -           | •             | •     |
| 0                         | CS 320 Y  | •       | R                | ✓          | Glass & Stone, Metal, Paint/Varnish/Primer, Plastic/Rubber | •     | •                    | •                     | •          | -           | -             | -     |
| SILICON CARBIDE           | CS 321 X  | •       | R                | ✓          | Glass & Stone, Metal, Paint/Varnish/Primer, Plastic/Rubber | -     | -                    | -                     | -          | -           | •             | •     |
| S                         | CS 333 X  | •       | R                |            | Glass & Stone, Metal, Paint/Varnish/Primer, Plastic/Rubber | -     | •                    | -                     | •          | -           | •             | •     |
|                           | CS 333 JF | •       | R                |            | Glass & Stone, Metal, Paint/Varnish/Primer, Plastic/Rubber | •     | •                    | -                     | -          | -           | •             | -     |
|                           | CS 539 Z  | •       | R                | 1          | Wood, Particle Board, Coil Polishing                       | -     | •                    | -                     | -          | -           | -             | -     |
|                           |           |         |                  |            |  |       |                      |                       |            |             |               |       |
|                           | PS 21 F   |         | R                |            | Metal, Stainless Steel, Wood                               | •     | •                    | -                     | -          | -           | -             | •     |
|                           | PS 36 C   | •       | R                |            | Metal, Stainless Steel, Wood                               | •     | -                    | -                     | -          | -           | •             | •     |
|                           | PS 36 D   | •       | R                |            | Metal, Stainless Steel, Wood                               | •     | -                    | -                     | -          | -           | •             | •     |
| ⊴                         | CS 409 YX | •       | R                | ✓          | Metal, Stainless Steel                                     | -     | •                    | •                     | •          | -           | -             | -     |
| ALUMINA ZIRCONIA          | CS 409 Y  | •       | R                | 1          | Metal, Stainless Steel                                     | -     | •                    | •                     | •          | -           | -             | -     |
| RC                        | CS 411 X  | •       | R                |            | Metal, Stainless Steel                                     | •     | •                    | -                     | -          | -           | -             | •     |
| \ Z                       | CS 411 YX | •       | R                | 1          | Metal, Stainless Steel                                     | •     | •                    | •                     | •          | -           | -             | -     |
| Ž                         | CS 411 Y  | •       | R                | 1          | Metal, Stainless Steel                                     | •     | •                    | •                     | •          | -           | -             | -     |
| M                         | CS 416 YX | •       | R                | ✓          | Metal, Stainless Steel                                     | -     | •                    | •                     | •          | -           | -             | -     |
| AL                        | CS 416 Y  | •       | R                | 1          | Metal, Stainless Steel                                     | -     | •                    | •                     | •          | -           | -             | -     |
|                           | CS 565    | •       | R                |            | Metal, Stainless Steel                                     | -     | -                    | -                     | -          | •           | -             | -     |
|                           | CS 570    | •       | R                |            | Metal, Stainless Steel                                     | -     | -                    | -                     | -          | •           | -             | -     |
|                           | CS 811 YY | •       | R                | 1          | Metal  | •     | •                    | •                     | -          | -           | -             | -     |
|                           |           |         |                  |            |  |       |                      |                       |            |             |               |       |
|                           | CS 910 Y  | •       | R                | 1          | Metal, Stainless Steel                                     | -     | •                    | •                     | •          | -           | -             | -     |
| ⊇≅                        | CS 912 Y  | •       | R                | 1          | Metal, Stainless Steel                                     | -     | •                    | •                     | •          | -           | -             | -     |
| ERAMIC<br>UMINUM<br>OXIDE | FS 966    | •       | R                |            | Metal, Stainless Steel                                     | -     | -                    | -                     | -          | •           | -             | -     |
| AEG                       | CS 631 JF | •       | R                |            | Metal, Stainless Steel                                     | -     | •                    | -                     | -          | -           | -             | -     |
|                           | CS 631 XF | •       | R                |            | Metal, Stainless Steel                                     | -     | •                    | •                     | -          | -           | -             | -     |

**ACT** Advanced Coating Technology, O Open Coat, **●** Semi Open Coat, **●** Closed Coat, R = Resin, G = Glue



