



PREFERRED
PREFERRED ABRASIVES

PROFESSIONAL
GRADE SANDPAPER

"COATED & BONDED" ABRASIVES

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"NON-WOVEN & COTTON FIBER" ABRASIVES

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Terms / Conditions: See inside back cover

Cross Reference Chart

Listed by Grain Type, the most flexible to the most rigid.

ALUMINUM OXIDE CLOTH									
Wt.	Preferred	Backing	Grits	3M	Norton	Hermes	VSM	Kling.	Deer
J-Flex	KAF	Cotton	60-600	201E	R201	RB317J	KK511F,J	LS309J	JA512
	KK511F		800	-	R245	RB346J	-	-	-
	KA537 (Grind. Aid)		60-600	303D	R296	RB406J	KK841F	LS312J	KA537
	JA165	Poly/Cotton	60-600	201E	R201	RB317J	KK511F,J	LS309J	JA512
	K35SF Open Coat-Wood		80-220	-	-	RB306JF	KK504F	LS319JF	JW342
J	Sheets/Shop Rolls	Cotton	36-500	314D	K225,K227	RB232J	KK14F	KL361	-
	Emery Cloth		C,M,F	011K	K622	-	-	KL371	-
	Crocus Cloth		Crocus	-	K624	-	-	-	-
X	XA167	Poly/Cotton	24-400	241D, E	R228	RB346X	KK711X	CS310X	XA911
	XA911, R145			248D	R249,R283			CS412X	
	XA345, K35X Open Coat		24-320	240D	R215,R232	RB316XOP	KK504X	CS311X	XW341
Y	R192 (Grind. Aid) Dry Only	Poly/Cotton	36-600	361F	R247,R249	RB376TY	KK711Y	CS410,412Y	PA631
	PA343, W25 OC Wet or Dry	Poly	24-320	270D	R215	RB316XOP	KK524X,Y	CS311,341Y CS413Y	PA343
ZIRCONIA ALUMINA CLOTH									
X	XZ677 Wet or Dry	Poly/Cotton	36-180	-			ZK713T	CS411X	XZ677
Y	PZ628, R205 Wet or Dry	Poly	24-120	-	R823P	RB484TY	ZK713X	CS411Y	PZ628
						RB488Y	KK715X	CS408Y	
	R203, PZ528 (Grind. Aid) Dry Only		24-120	577F 777F	R823P	RB486X,Y RB426X	ZK744X KK815Y	CS409Y	PZ528
CERAMIC ALUMINA CLOTH									
J	JS997 (Grind. Aid)	Poly/Cotton	60-220	707JE	R916		XK870F		JS997
X, Y	Firestorm II (Grinding Aid) Wet or Dry	Poly	24-120	984F			XK885Y		
	Firestorm (Grinding Aid) Wet or Dry			777F,963G 967F,977F	R980	CB441Z CB440Y	XK870X	CS612YY CS610YY	PS999 PS992
SILICON CARBIDE CLOTH									
Y	PC221, S181 Wet or Dry	Poly	24-800	461F	R422	RB318X	CK721X	CS321X	PC221
RESIN FIBER DISCS									
Fiber	Ceramic Firestorm II	Fiber	24-120	987C	-	-	XF885	-	-
	Ceramic Firestorm		24-120	982C,985C	F980, F981	CB844X	XF870	CS661	-
	Zirc Premium		24-120	501C	F826P	RB414	ZF713	CS565	VZ133
	AO Premium		16-120	281C, 381C	F240, F726	RB314X	KF708	CS561	VA113, VA632

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Cross Reference Chart - Cont'd.

Listed by Grain Type, the most flexible to the most rigid.

PAPER / FILM										
Wt.	Preferred	Backing	Grits	3M	Norton	Mirka	VSM	Kling.	Indasa	
FILM	AO Blue Film	Film	40-2000	366L	-	Microstar	-	-	Ryno Film	
A	AO Finishing Paper	Paper	80-280	210N	212	-	KP31	PL31	-	
C/D	AO Cabinet Paper		36-150	230N	211, 213	-	KP31	PL31	-	
A/C	S/C Wet or Dry Paper		60-3000	431Q	401, 414	-	CP918	PS11	Rynowet	
B / C	AO White Stearate (No-Load)		80-400	216U	A275, PB273	Bulldog, Carat, Base Cut			PS33	Whiteline
B / C	AO Gold Stearate (No-Load)		40-600	214U, 236U	A296, PB273	Bulldog, Carat, Base Cut	KP911, MP10		PS33, PL36	Whiteline
F	AO F-wt. Anti Static OP B-317		40-220	261UZ 265UZ	H248 H258			KP520F	PS20 PS23	

Abrasive Grain Types

CERAMIC (self-sharpening)

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



ZIRCONIA ALUMINA (aka Zirc or Zirconium - self-sharpening)

They work best for heavy stock removal on high pressure applications. Heavy pressure is necessary to fracture the grain & allow it to self-sharpen. They offer an increased cut rate and longer life than aluminum oxide products.

ALUMINUM OXIDE (very versatile)

They are a good starting specification when initial price is the primary purchasing consideration. Generally used for sanding metal and wood. Can be used with light to heavy pressure.

SILICON CARBIDE (high initial cut rate)

Popular in various aerospace applications - especially on titanium because they will not contaminate the workpiece. Also good for sanding glass, ceramics, plastics, paints, rubber, wood & non-ferrous applications.

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Material Descriptions

CERAMIC CLOTH

CA/Y FIRESTORM II (Grinding Aid) Grit range 24 – 120 (Closed Coat)
"Firestorm II" Ceramic, Y-wt. Poly: This new & innovative grain is manufactured in a way that results in a much finer crystalline structure. This improved mineral fracture provides longer life, and more aggressive grains with an improved self-sharpening effect. This product features a durable polyester backing and grinding aid that helps reduce work piece temperatures and aids in reducing loading. Works best with medium to heavy pressure. Best for stainless steel, Inconel, titanium, carbon steel & aluminum. Very durable. Good for narrow & wide belts. Designed for dry use but can be used wet.

FIRESTORM (Grinding Aid) (Original Firestorm) Grit range 24 – 120 (Closed Coat)
"Firestorm" Ceramic, X-wt. Poly: This high-performance product continues to be one of our top selling materials. The ceramic grain structure allows each granule to "micro fracture" to last longer & stay sharp throughout the life of the product. Features a durable polyester backing and grinding aid that helps reduce work piece temperatures and aids in reducing loading. Works best with medium to heavy pressure. Best for stainless steel, Inconel, titanium, carbon steel & aluminum. Very durable. Good for narrow & wide belts. Designed for dry use but can be used wet.

CA/J PLUS (Grinding Aid) JS997 (Flexible Ceramic) Grit range 60-220 (Closed Coat)
Ceramic, J-wt. Poly/Cotton: High performance flexible product with a grinding aid. Great for polishing or when using the "slack" of the belt. Does NOT require heavy pressure. Works great on carbon steel, stainless steel, Inconel, titanium & high-grade aluminum. Primarily used for narrow belts. Designed for dry use but can be used wet.

ZIRC CLOTH

ZA/Y PLUS (Grinding Aid) R203 (Our most popular Zirc) Grit range 24 - 120 (Closed Coat)
Zirconia Alumina, Y-wt. Poly: This is the "Original" Green Belt, today it is still the top performing Zirc belt on the market. Featuring a durable polyester backing and top sized grinding aid that helps reduce work piece temperatures. Heavy pressure helps to break down the grains and keep them sharp. Great for hard to grind metals, and even excels on aluminum, due to the grinding aid which helps prevent loading. Great for stainless steel, titanium, low carbon steel, cast iron & aluminum. Very durable. Good for narrow & wide belts. Designed for dry use but can be used wet.

STANDARD PZ628, R205 Grit range 24 - 120 (Closed Coat)
Zirconia Alumina, Y-wt. Poly: Great for most metals & hardwoods. Heavy pressure helps to break down the grains and keep them sharp. Very durable. Good for narrow & wide belts, wet or dry.

ZA/X ECONOMY XZ677 (Our economy Zirc) Grit range 36 - 180 (Closed Coat)
Zirconia Alumina, X-wt. 65/35 Poly/Cotton: Good for medium pressure applications that don't require the durability of a full polyester backing. Primarily used for narrow belts. Can be used wet or dry.

A/O CLOTH

AO/J PLUS (Grinding Aid) KA537 (Our most popular J-Flex belt material) Grit range 60 – 600 (Closed Coat)
"Premium" Blue Fired Aluminum oxide, J-Flex 100% Cotton: A highly flexible product with a grinding aid for use on most metals and hardwoods. Easy to tear into narrower widths. Great on stainless steel, brass & other alloyed materials (very popular with Knifemakers for blades and handles). Primarily used for narrow belts, dry only.

PREMIUM KAF Grit range 60 – 400 (Closed Coat)
Aluminum oxide, J-wt. 100% Egyptian Cotton: A highly flexible product for use on most metals and hardwoods. Easy to tear into narrower widths. Primarily used for narrow belts, dry only.

"PC" JA165 (Our economy AO/J belt material) Grit range 60 – 600 (Closed Coat)
Aluminum oxide, J-wt. 65/35 Poly/Cotton: Anti-Static, flexible multi-use product for use on soft woods, aluminum, die-cast, carbon steel and other metal applications. Primarily used for narrow belts, dry only.

Material Descriptions – Cont’d.

A/O CLOTH –Cont’d.

- AO/X STANDARD** **XA911, R145** (*Our most popular AO/X belt material*) Grit range 24 - 400 (Closed Coat)
Aluminum oxide, X-wt. 65/35 Poly/Cotton: Good for most metal & hardwood applications. Good for narrow & wide belts, dry use only.
- “PC”** **XA167** (*Our economy AO/X belt material*) Grit range 24 - 400 (Closed Coat)
Aluminum oxide, X-wt. 65/35 Poly/Cotton: Anti-Static, multi-purpose material for most metal & wood applications. Good for narrow & wide belts, dry use only. Popular for portable belts, edge sanders and stroke sanders.
- OPEN COAT** **XA345, K35** Grit range 24 - 320 (Open Coat)
Aluminum oxide, X-wt. Cotton: Good general-purpose material for all wood applications. Good for narrow & wide belts, dry use only. Popular for portable belts, edge sanders and stroke sanders.
- AO/Y PLUS (Grinding Aid) R192** Grit range 24 - 600 (Closed Coat)
Heat Treated Aluminum Oxide, X/Y wt. 65-35 Poly/Cotton: (Y-wt. for 120 grit & coarser). Includes an active filler grinding aid to help reduce heat. For stainless steel, carbon steel, tool steel, high tensile steel, titanium & other heat sensitive material. Good for narrow & wide belts. Designed for dry use but can be used wet.
-

A/O PAPER

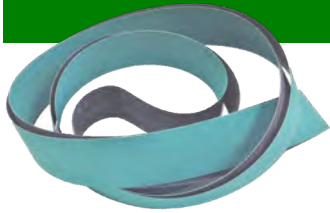
- AO/F OPEN COAT** **B317** Grit range 40 - 320 (Open Coat)
Aluminum oxide, F-wt. Paper: Good general-purpose material for all wood or metal applications. Good for wide belts, dry use only.
-

S/C CLOTH

- SC/Y STANDARD Wet/Dry** **PC221, S181** Grit range 24 - 800 (Closed Coat)
Silicon Carbide, Y-wt. Poly: For sanding of titanium, non-ferrous metal, glass, cement, ceramic, plastic & rubber. Good for narrow & wide belts, wet or dry.
-

RESIN FIBER DISCS

- CERAMIC FIRESTORM II** Grit range 24 - 120 Closed Coat
This new high-performance disc (*Made-in-Germany*) provides the ultimate performance on stainless steel and many other hard metals, and aluminum. Made with a new & innovative grain that is manufactured in a way that results in a much finer crystalline structure. This improved mineral fracture provides longer life, and more aggressive grains with an improved self-sharpening effect. They provide the fastest cut rate & longest life. The grinding aid reduces heat build-up and can help prevent loading.
- FIRESTORM** Grit range 24 - 120 Closed Coat
This high-performance disc (*Made-in-Germany*) works great on stainless steel and many other hard metals, and aluminum. They provide a very fast cut rate & long life. The grinding aid reduces heat build-up and can help prevent loading.
- ZIRC PREMIUM** Grit range 16 - 120 Closed Coat
This premium ZA disc (*Made-in-Germany*) is a good choice for aggressive grinding on most materials (works best with pressure). Zirc is a self-sharpening grain and it maintains good cutting action as it wears.
- AO PREMIUM** Grit range 16 - 120 Closed Coat
This premium AO discs (*Made-in-Germany*) are a good starting point when price is the primary purchasing criteria. AO grains do not resharpen like ceramic & zirc products. As they wear, they become dull and the rate of stock removal diminishes quickly.



Popular J-Flex Belts

(Green) AO/J Plus (J3) = A/O "Blue Fired" grain - flexible cotton backing
 (Blue) CA/J Plus (CJ3) = Ceramic grain - flexible poly/cotton backing

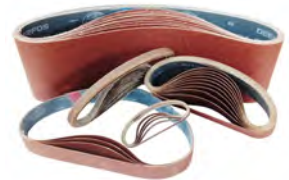
Size	Mtl.	80	120	180	220	320	400	600
1 x 30	Green	701606-J3	701608-J3	701610-J3	701611-J3	701613-J3	701614-J3	701615-J3*
Std. Pkg. 50	Blue	701606-CJ3	701608-CJ3	701610-CJ3	701611-CJ3	-	-	-
1 x 72	Green	70186-06-J3-SE	70186-08-J3-SE	70186-10-J3-SE	70186-11-J3-SE	70186-14-J3-SE	70186-15-J3-SE	70186-17-J3-SE
Scalloped Edge Std. Pkg. 50	Blue	-	-	-	-	-	-	-
2 x 42	Green	70298-J3	70300-J3	70302-J3	70303-11-J3	70303-14-J3	70303-15-J3	70303-17-J3*
Std. Pkg. 10	Blue	70298-CJ3	70300-CJ3	70302-CJ3	70303-11-CJ3	-	-	-
2 x 48	Green	70322-J3	70324-J3	70326-J3	70326-11-J3	70327-14-J3	70328-15-J3	70328-17-J3
Std. Pkg. 10	Blue	70322-CJ3	70324-CJ3	70326-CJ3	70326-11-CJ3	-	-	-
2 x 72	Green	70346-J3	70348-J3	70349-J3	70350-J3	70352-J3	70354-J3	70355-17-J3*
Std. Pkg. 10	Blue	70346-CJ3	70348-CJ3	70349-CJ3	70350-CJ3	-	-	-
2 x 132	Green	70382-J3	70384-J3	70386-J3	70386-11-J3	70388-J3	70389-J3	70391-J3
Std. Pkg. 10	Blue	70382-CJ3	70384-CJ3	70386-CJ3	70386-11-CJ3	-	-	-
3 x 132	Green	70646-J3	70648-J3	70650-J3	70650-11-J3	70652-J3	70653-J3	70655-J3
Std. Pkg. 10	Blue	70646-CJ3	70648-CJ3	70650-CJ3	70650-11-CJ3	-	-	-
4 x 132	Green	70886-J3	70888-J3	70890-J3	70890-11-J3	70893-J3	70894-J3	70896-J3
Std. Pkg. 10	Blue	70886-CJ3	70888-CJ3	70890-CJ3	70890-11-CJ3	-	-	-

* 800,1200, 2000 grits are also available.

Super Saver Cloth Belts

AO/X "PC"

Super Saver Belts: These popular size belts are made from our AO/X "PC" material (XA167). This is an excellent quality semi-open coat material, well suited for all general purpose AO belt applications on either metal or wood. These select sizes are offered at substantial cost savings compared to our regular AO/X Std material.



Size	Pkg.	36	40	50	60	80	100	120
1 x 42	50	70162-PC	70163-PC	70164-PC	70165-PC	70166-PC	70167-PC	70168-PC
2 x 48	10	70318-PC	70319-PC	70320-PC	70321-PC	70322-PC	70323-PC	70324-PC
3 x 21	10	70522-PC	70523-PC	70524-PC	70525-PC	70526-PC	70527-PC	70528-PC
4 x 24	10	70738-PC	70739-PC	70740-PC	70741-PC	70742-PC	70743-PC	70744-PC
4 x 36	10	70762-PC	70763-PC	70764-PC	70765-PC	70766-PC	70767-PC	70768-PC
6 x 48	10	70990-PC	70991-PC	70992-PC	70993-PC	70994-PC	70995-PC	70996-PC

Narrow Cloth Belts



AO/X "PC" = "Super Saver" - Save big \$ on select sizes
 AO/X = AO/X Standard (General Purpose)
 ZA/Y + = Green Zirc Plus
 CA/Y + = Firestorm Ceramic Plus

Size	Mtl.	36	40	50	60	80	100	120
1/4 x 18 Std. Pkg. 50	AO/X	70045	70046	70047	70048	70049	700490	700491
	ZA/Y +	70045-Z3	70046-Z3	70047-Z3	70048-Z3	70049-Z3	700490-Z3	700491-Z3
	CA/Y +	70045-C3	70046-C3	70047-C3	70048-C3	70049-C3	700490-C3	700491-C3
3/8 x 13 Std. Pkg. 50	AO/X	70058-02	70058-03	70058-04	70059	70060	70061	70062
	ZA/Y +	70058-02-Z3	70058-03-Z3	70058-04-Z3	70059-Z3	70060-Z3	70061-Z3	70062-Z3
	CA/Y +	70058-02-C3	70058-03-C3	70058-04-C3	70059-C3	70060-C3	70061-C3	70062-C3
1/2 x 12 Std. Pkg. 50	AO/X	70072	70073	70074	70075	70076	70077	70078
	ZA/Y +	70072-Z3	70073-Z3	70074-Z3	70075-Z3	70076-Z3	70077-Z3	70078-Z3
	CA/Y +	70072-C3	70073-C3	70074-C3	70075-C3	70076-C3	70077-C3	70078-C3
1/2 x 18 Std. Pkg. 50	AO/X	700811-02	700811-03	700811-04	700811-05	700811-06	700811-07	700811-08
	ZA/Y +	700811-02-Z3	700811-03-Z3	700811-04-Z3	700811-05-Z3	700811-06-Z3	700811-07-Z3	700811-08-Z3
	CA/Y +	700811-02-C3	700811-03-C3	700811-04-C3	700811-05-C3	700811-06-C3	700811-07-C3	700811-08-C3
1/2 x 24 Std. Pkg. 50	AO/X	70084	70085	70086	70087	70088	70089	70090
	ZA/Y +	70084-Z3	70085-Z3	70086-Z3	70087-Z3	70088-Z3	70089-Z3	70090-Z3
	CA/Y +	70084-C3	70085-C3	70086-C3	70087-C3	70088-C3	70089-C3	70090-C3
3/4 x 18 Std. Pkg. 50	AO/X	70120	70121	70122	70123	70124	70125-07	70125-08
	ZA/Y +	70120-Z3	70121-Z3	70122-Z3	70123-Z3	70124-Z3	70125-07-Z3	70125-08-Z3
	CA/X +	70120-C3	70121-C3	70122-C3	70123-C3	70124-C3	70125-07-C3	70125-08-C3
3/4 x 20-1/2 Std. Pkg. 50	AO/X	70126	70127	70128	70129	70130	70131	70132
	ZA/Y +	70126-Z3	70127-Z3	70128-Z3	70129-Z3	70130-Z3	70131-Z3	70132-Z3
	CA/Y +	70126-C3	70127-C3	70128-C3	70129-C3	70130-C3	70131-C3	70132-C3
1 x 21 Std. Pkg. 50	AO/X	70159-02	70159-03	70159-04	70159-05	70159-06	70159-07	70159-08
	ZA/Y +	70159-02-Z3	70159-03-Z3	70159-04-Z3	70159-05-Z3	70159-06-Z3	70159-07-Z3	70159-08-Z3
	CA/Y +	70159-02-C3	70159-03-C3	70159-04-C3	70159-05-C3	70159-06-C3	70159-07-C3	70159-08-C3
1 x 30 Std. Pkg. 50	AO/X	701602	701603	701604	701605	701606	701607	701608
	ZA/Y +	701602-Z3	701603-Z3	701604-Z3	701605-Z3	701606-Z3	701607-Z3	701608-Z3
	CA/Y +	701602-C3	701603-C3	701604-C3	701605-C3	701606-C3	701607-C3	701608-C3
1 x 42 Std. Pkg. 50	AO-PC	70162-PC	70163-PC	70164-PC	70165-PC	70166-PC	70167-PC	70168-PC
	AO/X	70162	70163	70164	70165	70166	70167	70168
	ZA/Y +	70162-Z3	70163-Z3	70164-Z3	70165-Z3	70166-Z3	70167-Z3	70168-Z3
	CA/Y +	70162-C3	70163-C3	70164-C3	70165-C3	70166-C3	70167-C3	70168-C3
1 x 132 Std. Pkg. 10	AO/X	70190-02	70190-03	70190-04	70190-05	70190-06	70190-07	70190-08
	ZA/Y +	70190-02-Z3	70190-03-Z3	70190-04-Z3	70190-05-Z3	70190-06-Z3	70190-07-Z3	70190-08-Z3
	CA/Y +	70190-02-C3	70190-03-C3	70190-04-C3	70190-05-C3	70190-06-C3	70190-07-C3	70190-08-C3
1-1/8 x 21 Std. Pkg. 50	AO/X	70202	70203	70204	70205	70206	70207	70208
	ZA/Y +	70202-Z3	70203-Z3	70204-Z3	70205-Z3	70206-Z3	70207-Z3	70208-Z3
	CA/Y +	70202-C3	70203-C3	70204-C3	70205-C3	70206-C3	70207-C3	70208-C3
1-1/2 x 18-15/16 (Fits 6" expander) Std. Pkg. 10	AO/X	702421-02	702421-03	702421-04	702421-05	702421-06	702421-07	702421-08
	ZA/Y +	702421-02-Z3	702421-03-Z3	702421-04-Z3	702421-05-Z3	702421-06-Z3	702421-07-Z3	702421-08-Z3
	CA/Y +	702421-02-C3	702421-03-C3	702421-04-C3	702421-05-C3	702421-06-C3	702421-07-C3	702421-08-C3
1-1/2 x 60 Std. Pkg. 10	AO/X	70246	70247	70248	70249	70250	70251	70252
	ZA/Y +	70246-Z3	70247-Z3	70248-Z3	70249-Z3	70250-Z3	70251-Z3	70252-Z3
	CA/Y +	70246-C3	70247-C3	70248-C3	70249-C3	70250-C3	70251-C3	70252-C3
2 x 18-15/16 (Fits 6" expander) Std. Pkg. 10	AO/X	70267-02	70267-03	70267-04	70267-05	70267-06	70267-07	70267-08
	ZA/Y +	70267-02-Z3	70267-03-Z3	70267-04-Z3	70267-05-Z3	70267-06-Z3	70267-07-Z3	70267-08-Z3
	CA/Y +	70267-02-C3	70267-03-C3	70267-04-C3	70267-05-C3	70267-06-C3	70267-07-C3	70267-08-C3
2 x 30 Std. Pkg. 10	AO/X	70268-02	70268-03	70268-04	70268-05	70268-06	70268-07	70268-08
	ZA/Y +	70268-02-Z3	70268-03-Z3	70268-04-Z3	70268-05-Z3	70268-06-Z3	70268-07-Z3	70268-08-Z3
	CA/Y +	70268-02-C3	70268-03-C3	70268-04-C3	70268-05-C3	70268-06-C3	70268-07-C3	70268-08-C3

Note: Our most popular sizes and materials are shown. Others materials upon request - see page 9 for other material options.

Narrow Cloth Belts



AO/X "PC" = "Super Saver" - Save big \$ on select sizes
 AO/X = AO/X Standard (General Purpose)
 ZA/Y + = Green Zirc Plus
 CA/Y + = Firestorm Ceramic Plus

Size	Mtl.	36	40	50	60	80	100	120
2 x 36 Std. Pkg. 10	AO/X	70276	70277	70278	70279	70280	70281	70282
	ZA/Y +	70276-Z3	70277-Z3	70278-Z3	70279-Z3	70280-Z3	70281-Z3	70282-Z3
	CA/Y +	70276-C3	70277-C3	70278-C3	70279-C3	70280-C3	70281-C3	70282-C3
2 x 42 Std. Pkg. 10	AO/X	70294	70295	70296	70297	70298	70299	70300
	ZA/Y +	70294-Z3	70295-Z3	70296-Z3	70297-Z3	70298-Z3	70299-Z3	70300-Z3
	CA/Y +	70294-C3	70295-C3	70296-C3	70297-C3	70298-C3	70299-C3	70300-C3
2 x 48 Std. Pkg. 10	AO-PC	70318-PC	70319-PC	70320-PC	70321-PC	70322-PC	70323-PC	70324-PC
	AO/X	70318	70319	70320	70321	70322	70323	70324
	ZA/Y +	70318-Z3	70319-Z3	70320-Z3	70321-Z3	70322-Z3	70323-Z3	70324-Z3
	CA/Y +	70318-C3	70319-C3	70320-C3	70321-C3	70322-C3	70323-C3	70324-C3
2 x 60 Std. Pkg. 10	AO/X	70330	70331	70332	70333	70334	70335	70336
	ZA/Y +	70330-Z3	70331-Z3	70332-Z3	70333-Z3	70334-Z3	70335-Z3	70336-Z3
	CA/Y +	70330-C3	70331-C3	70332-C3	70333-C3	70334-C3	70335-C3	70336-C3
2 x 72 Std. Pkg. 10 Original Firestorm Firestorm II	AO/X	70342	70343	70344	70345	70346	70347	70348
	ZA/Y +	70342-Z3	70343-Z3	70344-Z3	70345-Z3	70346-Z3	70347-Z3	70348-Z3
	CA/Y +	70342-C3	70343-C3	70344-C3	70345-C3	70346-C3	70347-C3	70348-C3
	CA/Y +	70342-C4	70343-C4	70344-C4	70345-C4	70346-C4	70347-C4	70348-C4
2 x 132 Std. Pkg. 10	AO/X	70378	70379	70380	70381	70382	70383	70384
	ZA/Y +	70378-Z3	70379-Z3	70380-Z3	70381-Z3	70382-Z3	70383-Z3	70384-Z3
	CA/Y +	70378-C3	70379-C3	70380-C3	70381-C3	70382-C3	70383-C3	70384-C3
2-1/2 x 48 Std. Pkg. 10	AO/X	70426	70427	70428	70429	70430	70431	70432
	ZA/Y +	70426-Z3	70427-Z3	70428-Z3	70429-Z3	70430-Z3	70431-Z3	70432-Z3
	CA/Y +	70426-C3	70427-C3	70428-C3	70429-C3	70430-C3	70431-C3	70432-C3
2-1/2 x 60 Std. Pkg. 10	AO/X	70438	70439	70440	70441	70442	70443	70444
	ZA/Y +	70438-Z3	70439-Z3	70440-Z3	70441-Z3	70442-Z3	70443-Z3	70444-Z3
	CA/Y +	70438-C3	70439-C3	70440-C3	70441-C3	70442-C3	70443-C3	70444-C3
3 x 21 Std. Pkg. 10	AO-PC	70522-PC	70523-PC	70524-PC	70525-PC	70526-PC	70527-PC	70528-PC
	AO/X	70522	70523	70524	70525	70526	70527	70528
	ZA/Y +	70522-Z3	70523-Z3	70524-Z3	70525-Z3	70526-Z3	70527-Z3	70528-Z3
	CA/Y +	70522-C3	70523-C3	70524-C3	70525-C3	70526-C3	70527-C3	70528-C3
3 x 24 Std. Pkg. 10	AO/X	70546	70547	70548	70549	70550	70551	70552
	ZA/Y +	70546-Z3	70547-Z3	70548-Z3	70549-Z3	70550-Z3	70551-Z3	70552-Z3
	CA/Y +	70546-C3	70547-C3	70548-C3	70549-C3	70550-C3	70551-C3	70552-C3
3 x 48 Std. Pkg. 10	AO/X	70556-02	70556-03	70556-04	70556-05	70556-06	70556-07	70556-08
	ZA/Y +	70556-02-Z3	70556-03-Z3	70556-04-Z3	70556-05-Z3	70556-06-Z3	70556-07-Z3	70556-08-Z3
	CA/Y +	70556-02-C3	70556-03-C3	70556-04-C3	70556-05-C3	70556-06-C3	70556-07-C3	70556-08-C3
3 x 72 Std. Pkg. 10	AO/X	70558	70559	70560	70561	70562	70563	70564
	ZA/Y +	70558-Z3	70559-Z3	70560-Z3	70561-Z3	70562-Z3	70563-Z3	70564-Z3
	CA/Y +	70558-C3	70559-C3	70560-C3	70561-C3	70562-C3	70563-C3	70564-C3
3 x 79 Std. Pkg. 10	AO/X	705701-02	705701-03	705701-04	70571	70572	70573	70574
	ZA/Y +	705701-02-Z3	705701-03-Z3	705701-04-Z3	70571-Z3	70572-Z3	70573-Z3	70574-Z3
	CA/Y +	705701-02-C3	705701-03-C3	705701-04-C3	70571-C3	70572-C3	70573-C3	70574-C3
3 x 90 Std. Pkg. 10	AO/X	70582	70584	70585	70586	70587	70588	70589
	ZA/Y +	70582-Z3	70584-Z3	70585-Z3	70586-Z3	70587-Z3	70588-Z3	70589-Z3
	CA/Y +	70582-C3	70584-C3	70585-C3	70586-C3	70587-C3	70588-C3	70589-C3
3 x 132 Std. Pkg. 10	AO/X	70642	70643	70644	70645	70646	70647	70648
	ZA/Y +	70642-Z3	70643-Z3	70644-Z3	70645-Z3	70646-Z3	70647-Z3	70648-Z3
	CA/Y +	70642-C3	70643-C3	70644-C3	70645-C3	70646-C3	70647-C3	70648-C3
3 x 168 Std. Pkg. 10	AO/X	70662	70663	70664	70665	70666	70667	70668
	ZA/Y +	70662-Z3	70663-Z3	70664-Z3	70665-Z3	70666-Z3	70667-Z3	70668-Z3
	CA/Y +	70662-C3	70663-C3	70664-C3	70665-C3	70666-C3	70667-C3	70668-C3

Note: Our most popular sizes and materials are shown. Others materials upon request - see page 9 for other material options.

Narrow Cloth Belts



AO/X "PC" = "Super Saver" - Save big \$ on select sizes
 AO/X = AO/X Standard (General Purpose)
 ZA/Y + = Green Zirc Plus
 CA/Y + = Firestorm Ceramic Plus

Size	Mtl.	36	40	50	60	80	100	120
3-1/2 x 15-1/2 Std. Pkg. 10	AO/X	70690	70691	70692	70693	70694	70695	70696
	ZA/Y +	70690-Z3	70691-Z3	70692-Z3	70693-Z3	70694-Z3	70695-Z3	70696-Z3
	CA/Y +	70690-C3	70691-C3	70692-C3	70693-C3	70694-C3	70695-C3	70696-C3
4 x 24 Std. Pkg. 10	AO-PC	70738-PC	70739-PC	70740-PC	70741-PC	70742-PC	70743-PC	70744-PC
	AO/X	70738	70739	70740	70741	70742	70743	70744
	ZA/Y +	70738-Z3	70739-Z3	70740-Z3	70741-Z3	70742-Z3	70743-Z3	70744-Z3
4 x 36 Std. Pkg. 10	AO-PC	70762-PC	70763-PC	70764-PC	70765-PC	70766-PC	70767-PC	70768-PC
	AO/X	70762	70763	70764	70765	70766	70767	70768
	ZA/Y +	70762-Z3	70763-Z3	70764-Z3	70765-Z3	70766-Z3	70767-Z3	70768-Z3
4 x 54 Std. Pkg. 10	AO/X	70786	70787	70788	70789	70790	70791	70792
	ZA/Y +	70786-Z3	70787-Z3	70788-Z3	70789-Z3	70790-Z3	70791-Z3	70792-Z3
	CA/Y +	70786-C3	70787-C3	70788-C3	70789-C3	70790-C3	70791-C3	70792-C3
4 x 60 Std. Pkg. 10	AO/X	70793	70794	70794-04	70795	70796-06	70796-07	70796-08
	ZA/Y +	70793-Z3	70794-Z3	70794-04-Z3	70795-Z3	70796-06-Z3	70796-07-Z3	70796-08-Z3
	CA/Y +	70793-C3	70794-C3	70794-04-C3	70795-C3	70796-06-C3	70796-07-C3	70796-08-C3
4 x 106 Std. Pkg. 10	AO/X	70825	70826	70827	70828	70829	70830	70831
	ZA/Y +	70825-Z3	70826-Z3	70827-Z3	70828-Z3	70829-Z3	70830-Z3	70831-Z3
	CA/Y +	70825-C3	70826-C3	70827-C3	70828-C3	70829-C3	70830-C3	70831-C3
4 x 132 Std. Pkg. 10	AO/X	70882	70883	70884	70885	70886	70887	70888
	ZA/Y +	70882-Z3	70883-Z3	70884-Z3	70885-Z3	70886-Z3	70887-Z3	70888-Z3
	CA/Y +	70882-C3	70883-C3	70884-C3	70885-C3	70886-C3	70887-C3	70888-C3
6 x 48 Std. Pkg. 10	AO-PC	70990-PC	70991-PC	70992-PC	70993-PC	70994-PC	70995-PC	70996-PC
	AO/X	70990	70991	70992	70993	70994	70995	70996
	ZA/Y +	70990-Z3	70991-Z3	70992-Z3	70993-Z3	70994-Z3	70995-Z3	70996-Z3
6 x 60 Std. Pkg. 10	AO/X	71026	71027	71028	71029	71030	71031	71032
	ZA/Y +	71026-Z3	71027-Z3	71028-Z3	71029-Z3	71030-Z3	71031-Z3	71032-Z3
	CA/Y +	71026-C3	71027-C3	71028-C3	71029-C3	71030-C3	71031-C3	71032-C3
6 x 132 Std. Pkg. 10	AO/X	71036-02	71036-03	71036-04	71036-05	71037	71038	71039
	ZA/Y +	71036-02-Z3	71036-03-Z3	71036-04-Z3	71036-05-Z3	71037-Z3	71038-Z3	71039-Z3
	CA/Y +	71036-02-C3	71036-03-C3	71036-04-C3	71036-05-C3	71037-C3	71038-C3	71039-C3
8 x 107 Std. Pkg. 10	AO/X	71086	71087	71088	71089	71090	71091	71092
	ZA/Y +	71086-Z3	71087-Z3	71088-Z3	71089-Z3	71090-Z3	71091-Z3	71092-Z3
	CA/Y +	71086-C3	71087-C3	71088-C3	71089-C3	71090-C3	71091-C3	71092-C3
10 x 70-1/2 Std. Pkg. 10	AO/X	71206	71207	71208	71209	71210	71211	71212
	ZA/Y +	71206-Z3	71207-Z3	71208-Z3	71209-Z3	71210-Z3	71211-Z3	71212-Z3
	CA/Y +	71206-C3	71207-C3	71208-C3	71209-C3	71210-C3	71211-C3	71212-C3

Other popular belt materials

Grain	Description	Ext. *	Grade	Grain	Description	Ext. *	Grade
AO/J	AO/J PC Economy	(-JPC)	JA165	SC/Y	SC/Y Standard (wet/dry)	(-S)	PC221
	AO/J Premium	(-J2)	KAF	ZA/X	ZA/X PC (Economy)	(-ZPC)	XZ677
	AO/J Plus	(-J3)	KA537	ZA/Y	ZA/Y Standard (wet/dry)	(-Z)	PZ628
	AO Blue Film	(-BF)	SA331		ZA/Y Plus (wet/dry**)	(-Z3)	R203
AO/X	AO/X PC Economy	(-PC)	XA167	CA/J	ZA/Y Plus (wet/dry**)	(-Z6)	PZ528
	AO/X Standard	None	XA911		CA/J Blue Ceramic	(-CJ3)	JS997
	AO/X Open Coat	(-4)	K35	CA/X	CA/X Firestorm (wet/dry**)	(-C3)	XK870X
AO/Y	AO/Y Plus (w/d**)	(-Y)	R192	CA/Y	CA/Y Firestorm II (wet/dry**)	(-C4)	XK885Y

** Designed for dry use, but can be used wet.

* Material extension follows the part number. ie: to have a belt made from ZA/Y STD material, the AO/X part # will be followed by "-Z"

Wide Cloth Belts



AO/X Closed Coat (For Metal)
 AO/X "PC" Economy (For Metal or Wood)
 AO/X Open Coat (For Wood)
 AO/F Paper (For Metal / Wood)

Part Number Extension:

....shown below
add - **PC** to part number
add - **4** to part number
add - **F** to part number

Std. Pkg.	3/Box				5/Box							
	Size	36	40	50	60	80	100	120	150	180	220	240
25 x 48	72141	72142	72143	72144	72145	72146	72147	72148	72149	72150	72151	72151
25 x 60	72152	72153	72154	72155	72156	72157	72158	72159	72160	72161	72162	72162
36 x 75	72229	72230	72231	72232	72233	72234	72235	72236	72237	72238	72239	72239
37 x 60	72281	72282	72283	72284	72285	72286	72287	72288	72289	72290	72291	72291
37 x 75	72304	72305	72306	72307	72308	72309	72310	72311	72312	72313	72314	72314
50 x 103	72392	72393	72394	72395	72396	72397	72398	72399	72400	72401	72402	72402
52 x 75	72437	72438	72439	72440	72441	72442	72443-08	72443	72444	72445	72446	72446
52 x 103	72448	72449	72450	72451	72452	72453	72454	72455	72456	72457	72458	72458

Other sizes & grits are available. Normal delivery is approximately 5-7 work days.

Pump Sleeves

AO/J Open Coat

Std. Pkg. 10

Size	Grit	Item No.
9" x 10-5/8" (3" x 9" Drum)	60-J	69920
	80-J	69921
	120-J	69923
	180-J	69925
9" x 13-3/4" (4" x 9" Drum)	60-J	69932
	80-J	69933
	120-J	69935
	180-J	69937

Size	Grit	Item No.
9" x 20" (6" x 9" Drum)	60-J	69944
	80-J	69945
	120-J	69947
	180-J	69949
9" x 26-5/16" (8" x 9" Drum)	60-J	69956
	80-J	69957
	120-J	69959
	180-J	69961



GREASE STICKS

Formax F-26 Grease Stick: Helps prevent loading. This light bodied grease spreads out thinly and remains "wet" on the belt. Recommended for all belt-polishing operations. Works great on aluminum!

Std. Pkg. 1

Description	Item No.
Formax F-26	68010



CLEANING STICKS

Designed to primarily remove wood and other non-metallic materials that build up & clog the abrasive surface. (In some instances it also helps to remove clogged metal.)

Std. Pkg. 1

Size	Item No.
1-1/2 x 1-1/2 x 8	68026
2 x 2 x 12	68027

Hi-Performance Quick-Lock Discs

FIRESTORM CERAMIC II:

Longest lasting grain. Our newest ceramic grain offers improved self-sharpening for longer life and faster cut. Grinding aid makes it excellent for high heat applications such as stainless steel, highly alloyed or hardened steels. Also works great on carbon steel and aluminum.

FIRESTORM CERAMIC:

Long lasting grain self sharpens under medium or heavy pressure. Grinding aid makes it excellent for high heat applications such as stainless steel, highly alloyed or hardened steels. Also works great on carbon steel and aluminum.

Zirc Plus:

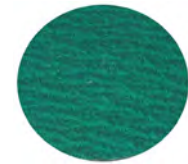
Self-sharpening grain. Works best with heavy pressure. Grinding aid makes it excellent for high heat applications such as stainless steel, highly alloyed or hardened steels. Also works great on carbon steel & aluminum.

Competitive Products:

3-M: Cubitron II
Superior: Ceramic Advantage
Norton: Blaze R980P 2 Ply

3-M: 977F, 777F Regalite
Norton: Blaze R980P 2 Ply
Standard: Ceramic
Merit: Ultra Ceramic Plus
Arc: Predator

3-M: 577F
Norton: R860
Standard: Zirconia Pro
Merit: Zirc Plus R887D



		FIRESTORM II	
Dia.	Grit	"S"	"R"
1-1/2" Std. Pkg. 100	36	-	-
	40	-	-
	50	-	-
	60	-	-
	80	-	-
	100	-	-
	120	-	-
2" Std. Pkg. 100	24	32549	32749
	36	32550	32750
	40	32551	32751
	50	32552	32752
	60	32553	32753
	80	32554	32754
	120	32556	32756
3" Std. Pkg. 50	24	32561	32761
	36	32562	32762
	40	32563	32763
	50	32564	32764
	60	32565	32765
	80	32566	32766
	120	32568	32768

		FIRESTORM	
		"S"	"R"
		32438	32638
		32439	32639
		32440	32640
		32441	32641
		32442	32642
		32443	32643
		32444	32644
		32449	32649
		32450	32650
		32451	32651
		32452	32652
		32453	32653
		32454	32654
		32455	32655
		32456	32656
		32461	32661
		32462	32662
		32463	32663
		32464	32664
		32465	32665
		32466	32666
		32467	32667
		32468	32668

		ZIRC PLUS	
		"S"	"R"
		-	-
		-	-
		-	-
		-	-
		-	-
		-	-
		-	-
		319031	319131
		319032	319132
		319033	319133
		319034	319134
		319035	319135
		319036	319136
		319037	319137
		319038	319138
		319041	319141
		319042	319142
		319043	319143
		319044	319144
		319045	319145
		319046	319146
		319047	319147
		319048	319148

Holders - page 13



TYPE "S" Equal To:

Norton *Speed-Lok TS*®
Standard Abr. *TS*®
Merit *Powerlock Type II*®
3M *Roloc TS*®



TYPE "R" Equal To:

Norton *Speed-Lok TR*®
Standard Abr. *TR*®
Merit *Powerlock Type III*®
3M *Roloc TR*®

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

Firestorm discs are also available with an "Extra Stiff" 3-PLY backing for demanding applications.

Quick-Lock Discs - AO

AO "Extreme":

Proprietary Blend of AO & ceramic grain. Discs have an extra durable 2-ply red backing which reduces edge wear & snagging. Metal Type S buttons are provided on our AO Extreme discs.

AO "Premium":

AO cloth is laminated to a blue cloth backing which improves durability & reduces edge wear. AO is a versatile grain and is a good starting specification when initial price is the primary purchasing consideration.



		AO "Extreme"		
Dia.	Grit	Type "P"	Type "S"	Type "R"
1" Std. Pkg. 100	36	31214-E	31414-E	31614-E
	40	31215-E	31415-E	31615-E
	50	31216-E	31416-E	31616-E
	60	31217-E	31417-E	31617-E
	80	31218-E	31418-E	31618-E
	100	31219-E	31419-E	31619-E
1-1/2" Std. Pkg. 100	120	31220-E	31420-E	31620-E
	36	31238-E	31438-E	31638-E
	40	31239-E	31439-E	31639-E
	50	31240-E	31440-E	31640-E
	60	31241-E	31441-E	31641-E
	80	31242-E	31442-E	31642-E
2" Std. Pkg. 100	100	31243-E	31443-E	31643-E
	120	31244-E	31444-E	31644-E
	36	31250-E	31450-E	31650-E
	40	31251-E	31451-E	31651-E
	50	31252-E	31452-E	31652-E
	60	31253-E	31453-E	31653-E
3" Std. Pkg. 50	80	31254-E	31454-E	31654-E
	100	31255-E	31455-E	31655-E
	120	31256-E	31456-E	31656-E
	36	31262-E	31462-E	31662-E
	40	31263-E	31463-E	31663-E
	50	31264-E	31464-E	31664-E
	60	31265-E	31465-E	31665-E
	80	31266-E	31466-E	31666-E
	100	31267-E	31467-E	31667-E
	120	31268-E	31468-E	31668-E

		AO "Premium"	
Dia.	Grit	Type "S"	Type "R"
1-1/2" Std. Pkg. 100	36	31438	31638
	40	31439	31639
	50	31440	31640
	60	31441	31641
	80	31442	31642
	100	31443	31643
2" Std. Pkg. 100	120	31444	31644
	24	31449	31649
	36	31450	31650
	40	31451	31651
	50	31452	31652
	60	31453	31653
	80	31454	31654
	100	31455	31655
	120	31456	31656
	180	31458	31658
3" Std. Pkg. 50	240	31459	31659
	320	31460	31660
	24	31461	31661
	36	31462	31662
	40	31463	31663
	50	31464	31664
	60	31465	31665
	80	31466	31666
	100	31467	31667
	120	31468	31668
	180	31470	31670
	240	31471	31671
	320	31472	31672

Most non-stock Extreme discs are usually available in 2-3 days.

Holders - page 13

Also available: Compact Grain and Silicon Carbide discs. Please contact us for availability.

Quick-Lock Holders

Premium Holders "Made in the USA"

Std. Pkg. 1 1/4" Shank

Dia.	Dens.	RPM	Type "S"	Type "R"
1-1/2"	Med/Firm	25,000	50252	50258
2"	Med/Firm	25,000	50253	50259
3"	Med/Firm	20,000	50254	50260



Premium holders improve cut-rate and disc life. Good for all discs, but they really enhance the performance of Ceramic & Zirc discs!

Traditional "Rubber" Holders

Std. Pkg. 1 1/4" Shank

Dia.	Dens.	RPM	Type "P"	Type "S"	Type "R"
3/4"	Med	40,000	-	50250	-
1"	Med	40,000	50234	50251	50257
1-1/2"	Med	25,000	50237	50252-R	50258-R
2"	Soft	20,000	50240SF	50253SF	50259SF
	Med	25,000	50240	50253-R	50259-R
3"	Firm	25,000	-	50253FM	50259FM
	Soft	12,000	50241SF	50254SF	50260SF
	Med	20,000	50241	50254-R	50260-R
	Firm	20,000	-	50254FM	50260FM



Additional Hardware

Std. Pkg. 1

Description	Item No.
Replacement Shank	50230
6" Extension Mandrel	12954
5/8-11 Adapter	50264

Fiber Disc Back-Up Pads

Rubber "Vented"

Std. Pkg. 1

Description	Firm.	Max RPM	Item No.
4-1/2" x 5/8-11	Med	13,500	50401
5" x 5/8-11	Med	13,000	50404
7" x 5/8-11	Med	8,600	50410
7" x 5/8-11	Rigid	8,600	50411
9" x 5/8-11	Med	6,600	50415
5/8-11 Center Nut (sold separately)			50418

Above pads are also available with a 5/8" smooth bore. To order this style, add "-SB" after the part number.



Our most popular back up pad. Spiral vents provide cooling action by pulling air between the disc and pad.

Low Profile

Std. Pkg. 1

Description	Firm.	Max RPM	Item No.
4-1/2" x 5/8-11	Med	13,000	50431-LP
5" x 5/8-11	Med	12,000	50432-LP

Includes 5 spacer washers to accommodate different spindle lengths.



Designed to work with quick-change fiber discs. Originally made to fit Black & Decker electric grinders due to their short spindles, but will fit most grinders. **Comparable to Standard Abrasives BD style pad.**

Heavy Duty

Std. Pkg. 1

Description	Firm.	Max RPM	Item No.
4-1/2" x 5/8 (Plain Hole)	Rigid	13,000	50436
5" x 5/8 (Plain Hole)	Rigid	12,000	50437
7" x 5/8 (Plain Hole)	Rigid	8,500	50438

Center Nut (#50418) Included with each p



Extra Rigid - "Glass Fiber Reinforced". Works great on severe grinding applications. (Ideal for grits 24 & 36)

General Purpose

Std. Pkg. 1

Description	Firm.	Max RPM	Item No.
4-1/2" x 5/8 (Plain Hole)	Med	13,000	50431
5" x 5/8 (Plain Hole)	Med	12,000	50432
7" x 5/8 (Plain Hole)	Med	8,500	50433

Center Nut (#50418) Included with each p



Our economy priced pad. Smooth face design works good on most general purpose applications.

Resin Fiber Discs

FIRESTORM II CERAMIC:



Our NEWEST GENERATION ceramic grain (Made-in-Germany) is produced with a much finer crystalline structure than previous generation ceramics. This unique mineral fracture provides the abrasive product with more aggressive grains with an improved self-sharpening effect. Works best on medium to high pressure applications on heat sensitive materials such as stainless steel, titanium and other super alloys. Works great on most other metals. The "Top Sized" grinding aid also allows it to perform well on aluminum without loading!

FIRESTORM CERAMIC:



Our original Firestorm ceramic grain (Made-in-Germany). Works great on medium to high pressure applications on heat sensitive materials such as stainless steel, titanium and other super alloys. Works great on most other metals. The "Top Sized" grinding aid also allows it to perform well on aluminum without loading!

Zirc Premium:



This premium ZA disc (Made-in-Germany) is a good choice for aggressive grinding on most materials (works best with medium to heavy pressure). Zirc is a self-sharpening grain and it maintains good cutting action as it wears.

AO Premium:



This premium AO disc (Made-in-Germany) is a good starting point when price is the primary purchasing criteria. *Note: AO grains do not resharpen like ceramic & zirc products, as they wear they become dull and the rate of stock removal diminishes quickly.*

Std. Pkg. 25		CERAMIC		ZIRC PREM.	AO PREM.
		FIRESTORM II	FIRESTORM		
Dia. x AH	Grit	Item No.	Item No.	Item No.	Item No.
4-1/2" x 7/8 Max RPM 13,000	24	37610	37510	37202	37110
	36	37611	37511	37203	37111
	50	37612	37512	37204	37112
	60	37613	37513	37205	37113
	80	37614	37514	37206	37114
	120	37616	37516	37208	37116
5" x 7/8 Max Max. 11,900	24	37618	37518	37208	37118
	36	37619	37519	37209	37119
	50	37620	37520	37210	37120
	60	37621	37521	37211	37121
	80	37622	37522	37212	37122
7" x 7/8 Max RPM 8,600	120	37624	37524	37214	37124
	24	37626	37526	37214	37126
	36	37627	37527	37215	37127
	50	37628	37528	37216	37128
	60	37629	37529	37217	37129
	80	37630	37530	37218	37130
	120	37632	37532	37220	37132

4" & 9" diameters are also available.

Back-up pads - page 13

5/8-11 Quick-Change Hub, can be added to all fiber discs shown above.



Quick-change discs work great with our Low Profile pads - page 13. Available to fit 4-1/2" & 5" discs. Includes several spacer-washers to prevent 5/8-11 grinder spindles from protruding thru the front of disc.

Flap Discs

Traditional Fiberglass Backing Plate



FIRESTORM CERAMIC: BEST CHOICE for *stainless steel and other hard-to-grind alloys*. Works great on most other materials - including carbon steel.

Premium Zirc: BEST CHOICE for *carbon steel*. Works great on most other materials - including stainless steel.

Std. Pkg. 10		Standard Density			
		Firestorm Ceramic		Premium Zirc	
Dia. x Arbor	Grit	T-29	T-27	T-29	T-27
4-1/2" x 7/8 Max. RPM 13,000	36	10923AF	10923FF	10823AF	10823FF
	40	10924AF	10924FF	10824AF	10824FF
	60	10925AF	10925FF	10825AF	10825FF
	80	10926AF	10926FF	10826AF	10826FF
4-1/2" x 5/8-11 Max. RPM 13,000	120	10927AF	10927FF	10827AF	10827FF
	36	10913AF	10913FF	10813AF	10813FF
	40	10914AF	10914FF	10814AF	10814FF
	60	10915AF	10915FF	10815AF	10815FF
7" x 7/8 Max. RPM 8,600	80	10916AF	10916FF	10816AF	10816FF
	120	10917AF	10917FF	10817AF	10817FF
	36	10963AF	10963FF	10863AF	10863FF
	40	10964AF	10964FF	10864AF	10864FF
7" x 5/8-11 Max. RPM 8,600	60	10965AF	10965FF	10865AF	10865FF
	80	10966AF	10966FF	10866AF	10866FF
	36	10953AF	10953FF	10853AF	10853FF
	40	10954AF	10954FF	10854AF	10854FF
	60	10955AF	10955FF	10855AF	10855FF
	80	10956AF	10956FF	10856AF	10856FF

Standard Density (Fiberglass Backing Plate)

Tightly layered flaps provide the most aggressive stock removal rates.



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



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



Std. Pkg. 10		Hi-Density				
		Firestorm Ceramic		Premium Zirc		
Dia. x Arbor	Grit	T-29	T-27	T-29	T-27	
4-1/2" x 7/8 Max. RPM 13,300	36	10928AF	10928FF	10623AF	10623FF	
	40	10929AF	10929FF	10624AF	10624FF	
	60	10930AF	10930FF	10625AF	10625FF	
	80	10931AF	10931FF	10626AF	10626FF	
	120	10927AF	10927FF	10627AF	10627FF	
4-1/2" x 5/8-11 Max. RPM 13,300	36	10918AF	10918FF	10613AF	10613FF	
	40	10919AF	10919FF	10614AF	10614FF	
	60	10920AF	10920FF	10615AF	10615FF	
	80	10921AF	10921FF	10616AF	10616FF	
	120	10922AF	10922FF	10617AF	10617FF	
7" x 7/8 Max. RPM 8,600	36	Available with 100 pcs. min. Please call to confirm price and delivery.	10663AF	10663FF	10663AF	10663FF
	40		10664AF	10664FF	10664AF	10664FF
	60		10665AF	10665FF	10665AF	10665FF
	80		10666AF	10666FF	10666AF	10666FF
7" x 5/8-11 Max. RPM 8,600	36		10653AF	10653FF	10653AF	10653FF
	40		10654AF	10654FF	10654AF	10654FF
	60		10655AF	10655FF	10655AF	10655FF
	80		10656AF	10656FF	10656AF	10656FF

Hi-Density

(Fiberglass Backing Plate)

Significantly increases product life and provides a more cushioned effect.



All flap disc pricing has been significantly reduced! See following pages for FastRim and Curved Edge.

Flap Discs - Quick Change Trimmable

REDUCED

Every Trimmable disc now has a 5/8-11 built-in thread!

(Quit paying extra for a metal 5/8-11 hub !)

FIRESTORM CERAMIC: BEST CHOICE for stainless steel and other hard-to-grind alloys. Works great on most other materials - including carbon steel.

Premium Zirc: BEST CHOICE for carbon steel. Works great on most other materials - including stainless steel.



FasTrim now has an internal 5/8-11 thread, which creates a lower profile design!

Safer....new low profile design keeps the disc inside the safety guard!

FAS TRIM® (TYPE 27) Trimmable Plastic Backing Plate						
		Firestorm Ceramic		Premium Zirc		
		Std. Density	Hi-Density	Std. Density	Hi-Density	
Std. Pkg. 10	Dia. x Arbor					
	4-1/2" x 5/8-11	36	10913T-FF	10918T-FF	10813T-FF	10613T-FF
		40	10914T-FF	10919T-FF	10814T-FF	10614T-FF
	Max. RPM	60	10915T-FF	10920T-FF	10815T-FF	10615T-FF
	13,300	80	10916T-FF	10921T-FF	10816T-FF	10616T-FF

Std. Pkg. 10

Dia. x Arbor	Grit	Std. Density	Hi-Density
4-1/2" x 5/8-11	36	10913T-FF	10918T-FF
	40	10914T-FF	10919T-FF
Max. RPM	60	10915T-FF	10920T-FF
	80	10916T-FF	10921T-FF

Std. Density	Hi-Density
10813T-FF	10613T-FF
10814T-FF	10614T-FF
10815T-FF	10615T-FF
10816T-FF	10616T-FF

Mini Flap Discs

Mini Flap Discs - Type 27



Std. Pkg. 10

		Type "R"				
		Firestorm Ceramic - Type "R"				
Dia.	Max RPM	40	60	80	120	Holder
2"	30,000	31719	31721	31722	31724	50259
3"	20,000	31727	31729	31730	31732	50260
		Zirc Premium - Type "R"				Holder
2"	30,000	31719FD	31721FD	31722FD	31724FD	50259
3"	20,000	31727FD	31729FD	31730FD	31732FD	50260

Std. Pkg. 10

		Type "S"				
		Zirc Premium - Type "S"				Steel Mandrel
Dia.	Max RPM	40	60	80	120	
2"	30,000	31536FD	31538FD	31539FD	31541FD	31560
3"	20,000	31548FD	31550FD	31551FD	31553FD	31560



Note about holders for mini flap discs:

Type S:

2" TS - discs **must** be used with steel mandrel #31560 shown.
3" TS - discs can be used with steel mandrel #31560 or with conventional quick-lock holder #50254.

Type R:

2" and 3" TR - discs to be used on conventional Type R quick-lock holders.

Curved Edge Flap Discs

Std. Pkg. 10

		Firestorm Ceramic			
Dia. x AH	Max RPM	40	60	80	120
4-1/2 x 7/8"	13,300	10900	10901	10902	10903
4-1/2 x 5/8-11	13,300	10906	10907	10908	10909
		Zirc Premium			
4-1/2 x 7/8"	13,300	10870	10871	10872	10873
4-1/2 x 5/8-11	13,300	10880	10881	10882	10883

Ideal for fillet welds and internal corners. They can grind on the face or the curved edge.



Curved Edge Mini Flap Discs

Std. Pkg. 10

		Firestorm Ceramic - Type "R"				Undersize
Dia.	Max RPM	40	60	80	120	Holder
2"	30,000	32210	32211	32212	32213	50258**
3"	25,000	32310	32311	32312	32313	50259**
		Zirc Premium - Type "R"				-
2"	30,000	319210	319211	319212	319213	50258**
3"	25,000	319310	319311	319312	319313	50259**



**IMPORTANT: These unique Quick-Lock discs require an undersized holder!!

2" discs use a 1-1/2" holder and the 3" discs use a 2" holder.

Bore Polishers

AO Resin Bond (Flexible)

BP-300



BP-400



BP-800



Our Bore Polishers are made with a special cotton material, which gives them a spring-action design so they automatically adjust to the inside diameter on every pass. Perfectly balanced & self centering to provide fast cleaning and polishing of interior cylinders.

Std. Pkg. 10

Series	ID Range	Flap Length	Grit	Item No.
BP-305 25,000 RPM	3/4 to 1" 3-Wings	3/8"	60	12804
			80	12805
			120	12807
BP-405 22,000 RPM	1 to 1-1/2" 4-Wings	5/8"	60	12815
			80	12816
			120	12818
BP-410 20,000 RPM	1-1/2 to 2" 4-Wings	1"	60	12826
			80	12827
			120	12829
BP-415 16,000 RPM	2-1/8 to 2-1/2" 4-Wings	1-1/2"	60	12837
			80	12838
			120	12840
BP-420 15,000 RPM	2-1/2 to 3" 4-Wings	2"	60	12848
			80	12849
			120	12851
BP-425 10,000 RPM	3-1/8 to 4" 4-Wings	2-1/2"	60	12859
			80	12860
			120	12862
BP-810 16,000 RPM	2 to 2-1/2" 8-Wings	1-1/4"	60	12870
			80	12871
			120	12873

Zirconia is also available.

Series	ID Range	Flap Length	Grit	Item No.
BP-815 15,000 RPM	2-5/8 to 3" 8-Wings	1-1/2"	60	12881
			80	12882
			120	12884
BP-820 10,000 RPM	3-1/8 to 4" 8-Wings	1-3/4"	60	12892
			80	12893
			120	12895
BP-825 8,000 RPM	4-1/4 to 5-1/4" 8-Wings	2-1/2"	60	12903
			80	12904
			120	12906
BP-830 8,000 RPM	5-1/4 to 5-7/8" 8-Wings	3"	60	12914
			80	12915
			120	12917

Bore Polisher Mandrels

Std. Pkg. 1

Mandrel #	Thrd.	Item No.
BPM-3 Series	5/16-18	12950
BPM-4 Series	1/2-20	12951
BPM-8 Series	1/4-20	12952
4" Extension	1/4-20	12953
6" Extension	1/4-20	12954
8" Extension	1/4-20	12955

Premium Mounted Flap Wheels

Premium: These premium wheels are "Made-in-Germany" with German X-Flex Egyptian Cotton. They have a high flap count & yet are flexible. They do not throw excessive dust, like many other wheels. These are generally regarded as the finest flap wheels available.



"Premium" - Flexible

1/4" Shank Premium

Std. Pkg. 10

Grit / Item No.

Dia. x Width		Max RPM	Grit / Item No.						
			40	60	80	120	180	240	320
3/4"	3/4"	35,000	11139-1	11139-3	11139-4	11139-5	11139-6	11139-7	11139-8
1"	5/8"	30,000	-	11156	11157	11159	11161	11163	11165
1"	1"	30,000	11167	11169	11170	11172	11174	11176	11178
1-1/2"	1/2"	30,000	11206	11208	11209	11211	11213	11215	11217
1-1/2"	1"	30,000	11232	11234	11235	11237	11239	11241	11243
2"	1/2"	25,000	11258	11260	11261	11263	11265	11267	11269
2"	3/4"	25,000	11271	11273	11274	11276	11278	11280	11282
2"	1"	25,000	11284	11286	11287	11289	11291	11293	11295
2"	1-1/2"	25,000	11297	11299	11300	11302	11304	11306	11308
2-1/2"	1"	23,000	11336	11338	11339	11341	11343	11345	11347
3"	1/4"	23,000	-	11361-05	11361-06	11361-07	11361-08	-	-
3"	1/2"	23,000	11362	11364	11365	11367	11369	11371	11373
3"	3/4"	23,000	11375	11377	11378	11380	11382	11384	11386
3"	1"	23,000	11388	11390	11391	11393	11395	11397	11399
3"	2"	12,000	11414	11416	11417	11419	11421	11423	11425

1/8" Shank Premium Miniatures

Std. Pkg. 10

Dia. x Width		RPM	Grit / Item No.						
			40	60	80	120	180	240	320
3/8"	3/8"	40,000	-	11082-3	11082-4	11082-5	11082-6	11082-7	11082-8
5/8"	5/8"	40,000	-	11090-3	11090-4	11090-5	11090-6	11090-7	11090-8
5/8"	3/4"	40,000	-	11091-3	11091-4	11091-5	11091-6	11091-7	11091-8
3/4"	3/16"	35,000	-	11104-3	11104-4	11104-5	11104-6	11104-7	11104-8
3/4"	3/8"	35,000	-	11117-3	11117-4	11117-5	11117-6	11117-7	11117-8
3/4"	1/2"	35,000	-	11127-3	11127-4	11127-5	11127-6	11127-7	11127-8
3/4"	5/8"	35,000	-	11128-3	11128-4	11128-5	11128-6	11128-7	11128-8
3/4"	3/4"	35,000	-	11129-3	11129-4	11129-5	11129-6	11129-7	11129-8
1-3/16"	1/8"	30,000	-	11179-3	11179-4	11179-5	11179-6	11179-7	11179-8
1-3/16"	3/16"	30,000	-	11182-3	11182-4	11182-5	11182-6	11182-7	11182-8
1-3/16"	3/8"	30,000	-	11195-3	11195-4	11195-5	11195-6	11195-7	11195-8


1/4-20 Spin-On Shank Premium

Std. Pkg. 10

Dia. x Width		Max RPM	Grit / Item No.						
			40	60	80	120	180	240	320
1"	1"	30,000	12148	12150	12151	12153	12155	12157	12159
1-1/2"	1"	30,000	12187	12189	12190	12192	12194	12196	12198
2"	1"	25,000	12239	12241	12242	12244	12246	12248	12250
3"	1"	23,000	12343	12345	12346	12348	12350	12352	-

1/4-20 Spin-On Adapters

Std. Pkg. 1

Spin-on adapter	1/4-20 x 1/4" Shank	50931	
6" OAL Spin-on adapter	1/4-20 x 1/4" Shank x 6" Long (2-pcs.)	50933	

"PC" Mounted Flap Wheels

PC: These wheels are economically priced and are offered in 2 different abrasive flexibility options. Both are made with Aluminum Oxide for fast cut.

Firm AOIX - Stiffer cotton backing. These durable flaps hold up well under heavy pressure or abusive applications.

Flexible AOIX - X-Flex Egyptian Cotton backing. The softer backing allows the flaps to flex under light pressure to make more contact with the workpiece. Best choice for contoured parts.



"PC" - Firm or Flexible

Std. Pkg. 10			1/4" Shank "PC" Firm						
			Grit / Item No.						
Dia. x Width	Max RPM		40	60	80	120	180	240	320
3/4"	3/4"	30,000	13139-1	13139-3	13139-4	13139-5	13139-6	-	-
1"	1"	30,000	13167	13169	13170	13172	13174	13176	13178
1-1/2"	1/2"	30,000	-	13208	13209	13211	-	-	-
1-1/2"	1"	30,000	13232	13234	13235	13237	13239	-	-
2"	1/2"	25,000	13258	13260	13261	13263	-	-	-
2"	1"	25,000	13284	13286	13287	13289	13291	13293	13295
2-1/2"	1"	23,000	13336	13338	13339	13341	-	-	-
3"	1/2"	20,000	-	13364	13365	13367	-	-	-
3"	1"	20,000	13388	13390	13391	13393	13395	-	-

Std. Pkg. 10			1/4" Shank "PC" Flexible						
			Grit / Item No.						
Dia. x Width	Max RPM		40	60	80	120	180	240	320
3/4"	3/4"	30,000	13139-1-FX	13139-3-FX	13139-4-FX	13139-5-FX	13139-6-FX	-	-
1"	1"	30,000	13167-FX	13169-FX	13170-FX	13172-FX	13174-FX	-	-
1-1/2"	1"	30,000	13232-FX	13234-FX	13235-FX	13237-FX	13239-FX	-	-
2"	1"	25,000	13284-FX	13286-FX	13287-FX	13289-FX	13291-FX	13293-FX	13295-FX
3"	1"	20,000	13388-FX	13390-FX	13391-FX	13393-FX	13395-FX	-	-

Std. Pkg. 10			1/4-20 Spin-On Shank "PC" Firm						
			Grit / Item No.						
Dia. x Width	Max RPM		40	60	80	120	180	240	320
1"	1"	30,000	14167	14169	14170	14172	14174	14176	14178
1-1/2"	1"	30,000	14232	14234	14235	14237	-	-	-
2"	1"	25,000	14284	14286	14287	14289	14291	14293	14295
3"	1"	20,000	14388	14390	14391	14393	-	-	-

Non-stock, but are generally available in 3-4 days. Other sizes and grits are available.

See previous page for Spin-On Adapters.

Unmounted Flap Wheels



These wheels are offered in 2 different abrasive flexibility options. Both are made with Aluminum Oxide for fast cut. Our "PC" Firm wheels are economically priced!



"Premium" - Flexible

Dia. x Width x AH	Grit	Item No.
6 x 1 x 1 Std. Pkg. 5 Max RPM 5,700	40	10241
	60	10243
	80	10244
	120	10246
6 x 1-1/2 x 1 Std. Pkg. 3 Max RPM 5,700	40	10261
	60	10263
	80	10264
	120	10266
6 x 2 x 1 Std. Pkg. 2 Max RPM 5,700	40	10281
	60	10283
	80	10284
	120	10286
8 x 1 x 1 Std. Pkg. 5 Max RPM 4,300	40	10341
	60	10343
	80	10344
	120	10346

"PC" - Firm

Dia. x Width x AH	Grit	Item No.
6 x 1 x 1 Std. Pkg. 5 Max RPM 5,700	40	10241-PC
	60	10243-PC
	80	10244-PC
	120	10246-PC
6 x 1-1/2 x 1 Std. Pkg. 3 Max RPM 5,700	40	10261-PC
	60	10263-PC
	80	10264-PC
	120	10266-PC
6 x 2 x 1 Std. Pkg. 2 Max RPM 5,700	40	10281-PC
	60	10283-PC
	80	10284-PC
	120	10286-PC
8 x 1 x 1 Std. Pkg. 5 Max RPM 4,300	40	10341-PC
	60	10343-PC
	80	10344-PC
	120	10346-PC

Non-stock items are generally available in 3-4 days. Other sizes and grits are available.

Reducer Bushings

Std. Pkg. 1 Pair

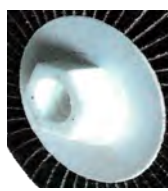
Size	Item No.
1" to 1/2"	10502
1" to 5/8"	10503
1" to 3/4"	10504



Abrasive Flap Drums



Quad Keyway



5/8-11 Spin-On

These premium wheels are made with German X-Flex Egyptian Cotton. The soft backing allows the flaps to flex under light pressure to make more contact with the workpiece...getting the job done faster.

Std. Pkg. 1

Dia. x Width x AH	Grit	Part #
4 x 4 x 3/4"	40	54265
	60	54266
	80	54267
	120	54268



Dia. x Width x AH	Grit	Part #
4-1/4 x 4 x 5/8-11	40	54275
	60	54276
	80	54277
	120	54278

2" wide wheels are also available.

See page 44 for Interleaf and non-woven flap drums.

5/8-11 Adapters for Quad Keyway

Std. Pkg. 1



Quad Key Adapter	Part #
Converts grinder spindle from 5/8-11 to 3/4" Quad Keyway	54372
3 Pc. Adapter Set	54370

Paper & Film H&L Discs



Gold H&L Paper: These C-weight discs offer durability and value for dry finishing. Made with P-graded AO grain for increased life, fast cut rate, and consistent finish. Anti-loading stearated for reduced clogging.

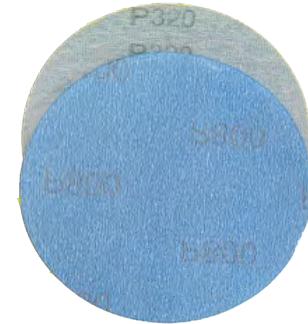
Std. Pkg. 100

Grit	2"	3"	5" x NH	5" x 5 Holes	5" x 8 Holes	6" x NH	6" x 6 Holes
40-D	-	-	34935-03	34935-03-5	34935-03-8	34936-03	-
60-C	34933-05	349331-05	34935-05	34935-05-5	34935-05-8	34936-05	-
80-C	34933-06	349331-06	34935-06	34935-06-5	34935-06-8	34936-06	34936-06-6
100-C	34933-07	349331-07	34935-07	34935-07-5	34935-07-8	34936-07	-
120-C	34933-08	349331-08	34935-08	34935-08-5	34935-08-8	34936-08	34936-08-6
150-C	34933-09	349331-09	34935-09	34935-09-5	34935-09-8	34936-09	-
180-C	34933-10	349331-10	34935-10	34935-10-5	34935-10-8	34936-10	34936-10-6
220-C	34933-11	349331-11	34935-11	34935-11-5	34935-11-8	34936-11	34936-11-6
320-C	34933-14	349331-14	34935-14	34935-14-5	34935-14-8	34936-14	-
400-C	34933-15	349331-15	34935-15	34935-15-5	34935-15-8	34936-15	-
600-C	34933-17	349331-17	34935-17 **	-	-	34936-17 **	-

** Also available: 800, 1000, 1200, 1500

H & L holders (5" & 6") see page 23

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



Std. Pkg. 100

Grit	2"	3"	5"	6"
60	35062-05	35063-05	35065-05	35066-05
80	35062-06	35063-06	35065-06	35066-06
100	35062-07	35063-07	35065-07	35066-07
120	35062-08	35063-08	35065-08	35066-08
150	35062-09	35063-09	35065-09	35066-09
180	35062-10	35063-10	35065-10	35066-10
220	35062-11	35063-11	35065-11	35066-11
240	35062-12	35063-12	35065-12	35066-12
320	35062-14	35063-14	35065-14	35066-14
400	35062-15	35063-15	35065-15	35066-15
600	35062-17	35063-17	35065-17	35066-17
800	35062-18	35063-18	35065-18	35066-18
1000	35062-19	35063-19	35065-19	35066-19
1500	35062-21	35063-21	35065-21	35066-21
2000	35062-22	35063-22	35065-22	35066-22

H & L holders (5" & 6") see page 23

Advantages of Film over paper:

- Longer lasting
- Flexible, waterproof & tear resistant
- Stronger grain adhesion
- Uniform grain size - reduces stray scratches

Competitive Products:

3-M: 366L
Deer: SA331
Sun: Q711T, L312T

Mini H&L Holders

Std. Pkg. 1

Dia. x Shank	Foam Dens.	Item No.
2" x 1/4 6,000 RPM	3/4" Thick Soft	53902-F
3" x 1/4 6,000 RPM	3/4" Thick Soft	53903-F
3" x 5/16-24 12,000 RPM	3/8" Thick Firm	53903-2



H & L holders (5" & 6") see page 23

Paper & Film PSA Discs



Gold : These C-weight discs offer durability and value for dry finishing. Pull Tabs for easy removal of backing paper. Made with P-graded AO grain for increased life, fast cut rate, and consistent finish. Anti-loading steared for reduced clogging.



Gold Disc Rolls

Std. Pkg. 1 Roll (100 discs per roll)

Gold Disc Rolls		
Grit	5"	6"
60	34967-05	34972
80	34967-06	34973
100	34967-07	34974
120	34967-08	34975
150	34967-09	34976
180	34967-10	34977
220	34967-11	34978
240	34967-12	34979
320	34967-14	34981
400	34967-15	34982
600	34967-17	34983

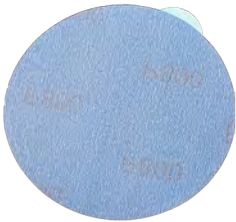
Gold Discs with Tabs

Std. Pkg. 100

Gold PSA Discs - Tabs		
Grit	5"	6"
40	34920-03	34925-03
60	34920-05	34925-05
80	34920-06	34925-06
100	34920-07	34925-07
120	34920-08	34925-08
150	34920-09	34925-09
180	34920-10	34925-10
220	34920-11	34925-11
320	34920-14	34925-14
400	34920-15	34925-15
600	34920-17	34925-17

Competitive Products:

3-M: 236U
Norton: A-296
Klingspor: PS33
Mirka: Bulldog Gold, Basecut

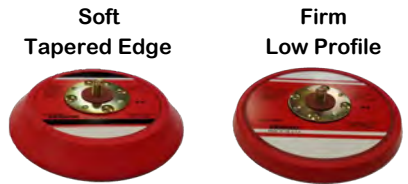


Blue Stearated Film: Precision graded AO grain, resin bonded to a flexible and durable film backing. Pull Tabs for easy removal of backing paper. Provides fast cut with uniform finish & outlasts paper discs. Non-loading, for use on metal, plastic, fiberglass, wood or solid-surface composites.

Blue Stearated Film Discs with Tabs

Std. Pkg. 100

Blue PSA Film - Tabs		
Grit	5"	6"
60	35055-05	35056-05
80	35055-06	35056-06
100	35055-07	35056-07
120	35055-08	35056-08
180	35055-10	35056-10
220	35055-11	35056-11
240	35055-12	35056-12
320	35055-14	35056-14
400	35055-15	35056-15
600	35055-17	35056-17
800	35055-18	35056-18
1000	35055-19	35056-19
1500	35055-21	35056-21
2000	35055-22	35056-22



PSA Back-Up Pads

Std. Pkg. 1

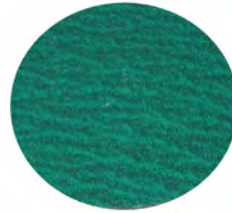
Dia.	Vac Holes	Flex	Item #
5" x 5/16-24 Thrd.	0	Soft	50215
		Firm	50217
	5	Soft	50215-5
		Firm	50217-5
	8	Firm	50217-8
6" x 5/16-24 Thrd.	0	Soft	50216
		Firm	50218
	6	Soft	50216-6
		Firm	50218-6

Zirc & Ceramic Cloth PSA Discs

Our "Hot Melt" PSA glue allows the worn disc to be removed without leaving any residue behind.
 (Tip: It is easier to remove the disc while it is still warm from grinding)

		Zirc Plus	Firestorm
Dia.	Grit	Item No.	Item No.
5"	36	30438-Z3	30438-C3
	40	30439-Z3	-
	50	30440-Z3	30440-C3
	60	30441-Z3	30441-C3
	80	30442-Z3	30442-C3
Std. Pkg. 50	120	30444-Z3	30444-C3
6"	36	30450-Z3	30450-C3
	40	30451-Z3	-
	50	30452-Z3	30452-C3
	60	30453-Z3	30453-C3
	80	30454-Z3	30454-C3
Std. Pkg. 50	120	30456-Z3	30456-C3
12"	36	30510-Z3	30510-C3
	40	30511-Z3	-
	50	30512-Z3	30512-C3
	60	30513-Z3	30513-C3
	80	30514-Z3	30514-C3
Std. Pkg. 25	120	30516-Z3	30516-C3
20"	36	30558-Z3	
	40	30559-Z3	
	50	30560-Z3	
	60	30561-Z3	
Std. Pkg. 10	80	30562-Z3	
	36	30570-Z3	
	40	30571-Z3	
24"	50	30572-Z3	
	60	30573-Z3	
	Std. Pkg. 5		

Other sizes & grits available.



Zirc Plus:

Long lasting, self-sharpening grain with a grinding aid. Good choice for tough applications & heavy stock removal. Grinding Aid helps reduce loading & workpiece temperatures.



Firestorm Ceramic:

Longest lasting, self-sharpening grain with a grinding aid. Best choice for tough applications & heavy stock removal, but works great on most materials. Grinding Aid helps reduce loading & workpiece temperatures.



File Board Sheets - AO Gold Paper

Size	Grit	Std. Pkg.	Item No.	
2-3/4" x 16.5"	36-E	25	78602	
	40-E	25	78603	
	80-C	50	78606	
	100-C	50	78607	
Hook & Loop Gold Sheets	120-C	50	78608	
	180-C	50	78610	
	2-3/4" x 16.5"	36-E	25	78502
		40-E	25	78503
80-C		50	78506	
100-C		50	78507	
120-C		50	78508	
PSA Gold Sheets	180-C	50	78510	
	2-3/4" x 17.5"	36-E	25	78302
		40-E	25	78303
80-C		50	78306	
100-C		50	78307	
Plain Back Gold Sheets	120-C	50	78308	
	180-C	50	78310	

H & L Back-up Pads

Std. Pkg. 1

Dia. x Shank	Flex	# Holes	Item No.
5" x 5/16-24	Soft	0	53905
		5	53905-5
12,000 Max RPM	Firm	0	53905F
		5	53905F-5
		8	53905F-8
6" x 5/16-24	Soft	0	53906
		6	53906-6
12,000 Max RPM	Firm	0	53906F
		6	53906F-6



Foam H&L Interface Pads - 1/2" Thick

Std. Pkg. 1

5"	Soft	0	53905IV
		5	53905IV-5
		8	53905IV-8
6"	Soft	0	53906IV
		6	53906IV-6



AO Cloth PSA Discs

AOIX Premium



AOIX Premium: Premium AO cloth discs coated with our "Hot Melt" PSA glue. These discs won't leave any residue when removed from backing pad or metal plate. (Tip: It is easier to remove the disc while it is still warm from grinding)

Dia.	Grit	Item No.
1/2" Std. Pkg. 100	80	30358-8
	100	30359-8
	120	30360-8
	180	30362-8
3/4" Std. Pkg. 100	80	30370-8
	100	30371-8
	120	30372-8
	180	30374-8
1" Std. Pkg. 100	60	30381-8
	80	30382-8
	100	30383-8
	120	30384-8
1-1/2" Std. Pkg. 100	180	30386-8
	50	30392-8
	60	30393-8
	80	30394-8
2" Std. Pkg. 100	100	30395-8
	120	30396-8
	180	30398-8
	50	30404-8
3" Std. Pkg. 100	60	30405-8
	80	30406-8
	100	30407-8
	120	30408-8
	180	30410-8
3" Std. Pkg. 100	30416-8	
	60	30417-8
	80	30418-8
	100	30419-8
	120	30420-8
180	30422-8	

Other sizes and grits available.

DA pads, see pg. 22

Dia.	Grit	Item No.
5" Std. Pkg. 50	36	30438-8
	40	30439-8
	50	30440-8
	60	30441-8
	80	30442-8
	100	30443-8
Available with Pull Tabs, on request.	120	30444-8
	180	30446-8
	240	30447-8
	320	30448-8
	36	30450-8
	40	30451-8
6" Std. Pkg. 50	50	30452-8
	60	30453-8
	80	30454-8
	100	30455-8
	120	30456-8
	180	30458-8
Available with Pull Tabs, on request.	240	30459-8
	320	30460-8
	36	30474-8
	40	30475-8
	50	30476-8
	60	30477-8
8" Std. Pkg. 50	80	30478-8
	120	30480-8
	36	30486-8
	40	30487-8
	50	30488-8
	60	30489-8
9" Std. Pkg. 25	80	30490-8
	120	30492-8

Dia.	Grit	Item No.
10" Std. Pkg. 25	36	30498-8
	40	30499-8
	50	30500-8
	60	30501-8
	80	30502-8
12" Std. Pkg. 25	120	30504-8
	36	30510-8
	40	30511-8
	50	30512-8
	60	30513-8
15" Std. Pkg. 25	80	30514-8
	120	30516-8
	36	30522-8
	40	30523-8
	50	30524-8
16" Std. Pkg. 25	60	30525-8
	80	30526-8
	36	30534-8
	40	30535-8
20" Std. Pkg. 10	50	30536-8
	60	30537-8
	80	30538-8
	36	30558-8
24" Std. Pkg. 10	40	30559-8
	50	30560-8
	60	30561-8
	80	30562-8
30" Std. Pkg. 5	36	30570-8
	40	30571-8
	50	30572-8
	60	30573-8
30" Std. Pkg. 5	36	30582-8
	40	30583-8
	50	30584-8
	60	30585-8

Small PSA Holders

Std. Pkg. 1

Dia. x Shank	RPM	Item No.
1/2" x 1/8	30,000	50201
3/4" x 1/4	30,000	50204
1" x 1/4	22,000	50206
1-1/2" x 1/4	22,000	50208
2" x 1/4	22,000	50209
3" x 1/4	12,000	50210
3" x 5/16-24	12,000	50214

5" & 6" PSA pads, see pg. 22



Straight Cartridge Rolls

Zirc & Silicon Carbide are available on request

Firestorm Ceramic: They cut faster, and last significantly longer than AO. They work especially well on hard-to-grind materials such as stainless, titanium, and other exotic alloys.

AO/X Premium: AO (R228) works great on most materials. The cotton backing breaks down with normal pressure to allow the additional layers to be exposed. Cartridge Rolls are effective for flash removal, edge breaking, polishing and removing machine tool marks. Great for reaching into corners and other tight areas that larger tools can not reach.



Std. Pkg. 100

Dia. x Length x AH	Grit	Item No.
3/16 x 1 x 3/32 Max RPM 26,000 Use A-2B or A-2E Mandrel	80	21136
	100	21137
	120	21138
	180	21140
1/4 x 1 x 1/8 Max RPM 26,000 Use A-4 or A-8 Mandrel	60	21159
	60-CER	21159-C
	80	21160
	80-CER	21160-C
	100	21161
	120	21162
	120-CER	21162-C
	180	21164
1/4 x 1-1/2 x 1/8 Max RPM 26,000 Use A-5 or A-9 Mandrel	60	21167
	60-CER	21167-C
	80	21168
	80-CER	21168-C
	100	21169
	120	21170
	120-CER	21170-C
	180	21172
5/16 x 1 x 1/8 Max RPM 26,000 Use A-4 or A-8 Mandrel	60	21211
	80	21212
	120	21214
5/16 x 1-1/2 x 1/8 Max RPM 26,000 Use A-5 or A-9 Mandrel	60	21223
	80	21224
	120	21226
3/8 x 1 x 1/8 Max RPM 26,000 Use A-4 or A-8 Mandrel	50	21270
	60	21271
	60-CER	21271-C
	80	21272
	80-CER	21272-C
	100	21272
	120	21274
	120-CER	21274-C
3/8 x 1-1/2 x 1/8 Max RPM 26,000 Use A-5 or A-9 Mandrel	50	21282
	60	21283
	60-CER	21283-C
	80	21284
	80-CER	21284-C
	100	21285
	120	21286
	120-CER	21286-C
1 x 2 x 1/4 Max RPM 15,000 Use A-21 Mandrel	180	21288
	240	21289
	320	21290

Dia. x Length x AH	Grit	Item No.
1/2 x 1 x 1/8 Max RPM 26,000 Use A-4 or A-8 Mandrel	60	21331
	60-CER	21331-C
	80	21332
	80-CER	21332-C
	100	21333
	120	21334
	120-CER	21334-C
	180	21336
1/2 x 1-1/2 x 1/8 Max RPM 26,000 Use A-5 or A-9 Mandrel	240	21337
	320	21338
	36	21340
	40	21341
	60	21343
	60-CER	21343-C
	80	21344
	80-CER	21344-C
1/2 x 2 x 1/8 Max RPM 26,000 Use A-10 Mandrel	100	21345
	120	21346
	120-CER	21346-C
	180	21348
	240	21349
	320	21350
	60	21355
	80	21356
5/8 x 1 x 3/16 Max RPM 18,000 Use A-15 Mandrel	120	21358
	60	21439
	80	21440
5/8 x 1-1/2 x 3/16 Max RPM 18,000 Use A-16 Mandrel	120	21442
	60	21451
	80	21452
3/4 x 1 x 3/16 Max RPM 18,000 Use A-15 Mandrel	120	21454
	60	21523
	80	21524
3/4 x 1 x 1/8 Max RPM 18,000 Use A-8 Mandrel	120	21526
	60	21523-AH
	80	21524-AH
3/4 x 1-1/2 x 3/16 Max RPM 18,000 Use A-16 Mandrel	120	21526-AH
	60	21535
	80	21536
3/4 x 1-1/2 x 1/4 Max RPM 18,000 Use A-21 Mandrel	120	21538
	60	21535-AH
	80	21536-AH
3/4 x 2 x 1/4 Max RPM 18,000 Use A-22 Mandrel	120	21538-AH
	60	21547-AH
	80	21548-AH
1 x 1-1/2 x 1/4 Max RPM 15,000 Use A-21 Mandrel	120	21550-AH
	36	21796
	60	21799
1 x 2 x 1/4 Max RPM 15,000 Use A-22 Mandrel	80	21800
	36	21916
	60	21919
1 x 2 x 1/4 Max RPM 15,000 Use A-22 Mandrel	80	21920

Other sizes, arbor holes & grits available. Mandrels - page 26

Full Taper Cartridge Rolls

AO (R228) or **Firestorm Ceramic**
Zirc & Silicon Carbide are available on request



Std. Pkg. 100

Dia. x Length x AH	Grit	Item No.
3/8 x 1 x 1/8 Max RPM 26,000 Use A-4 or A-8 Mandrel	60	23105
	60-CER	23105-C
	80	23106
	80-CER	23106-C
	120	23108
3/8 x 1-1/2 x 1/8 Max RPM 26,000 Use A-5 or A-9 Mandrel	60	23285
	60-CER	23285-C
	80	23286
	80-CER	23286-C
	120	23288
1/2 x 1 x 1/8 Max RPM 26,000 Use A-4 or A-8 Mandrel	60	23141
	60-CER	23141-C
	80	23142
	80-CER	23142-C
	120	23144
120-CER	23144-C	
	180	23146

Dia. x Length x AH	Grit	Item No.
1/2 x 1-1/2 x 1/8 Max RPM 26,000 Use A-5 or A-9 Mandrel	60	23321
	60-CER	23321-C
	80	23322
	80-CER	23322-C
	120	23324
120-CER	23324-C	
	180	23326
	60	23465
1/2 x 2 x 1/8 Max RPM 26,000 Use A-10 Mandrel	80	23466
	80-CER	23468
	120	23468
5/8 x 1-1/2 x 1/8 Max RPM 18,000 Use A-5 or A-9 Mandrel	60	23357
	80	23358
	120	23360
	60	23405
3/4 x 1-1/2 x 3/16 Max RPM 18,000 Use A-16 Mandrel	80	23406
	120	23408
	60	23621
1 x 1-1/2 x 3/16 Max RPM 18,000 Use A-16 Mandrel	80	23622
	120	23624
	60	23624

Other sizes, arbor holes & grits available.

Cartridge Roll Mandrels

Std. Pkg. 1

Mandrel No.	Pilot Dia.	Pilot Length	Shank Dia.	OAL	Item No.
A-2B	3/32	3/4	1/8	3	50102-3
A-2E	3/32	3/4	1/4	3	50102-2
A-4	1/8	3/4	1/8	2-3/4	50104
A-5	1/8	1	1/8	3	50105
A-8	1/8	3/4	1/4	2-1/2	50108
A-8-6	1/8	3/4	1/4	6	50108-6
A-9	1/8	1	1/4	2-3/4	50109
A-9-6	1/8	1	1/4	6	50109-6
A-10	1/8	1-1/2	1/4	3-1/4	50110
A-15	3/16	3/4	1/4	2-1/2	50115
A-16	3/16	1	1/4	3	50116
A-16-6	3/16	1	1/4	6	50116-6
A-17	3/16	1-1/2	1/4	3-1/2	50117
A-21	1/4	1	1/4	3	50121
A-21-6	1/4	1	1/4	6	50121-6
A-22	1/4	1-1/2	1/4	3-1/2	50122



How to order mandrels:

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



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

Duracaps

AO or Firestorm Ceramic

"C" Shape

Shape x Dia. x Length	Grit	Part #
CAP-C 3/16 x 7/16	80-AO	28301
	150-AO	28304
	280-AO	28308
Std. Pkg. 50	80-CER	28302-C
	120-CER	28304-C
	Expanding Rubber Drum - Std. Pkg. 1	
CAP-C 9/32 x 1/2	60-AO	28310
	150-AO	28314
	280-AO	28318
50/Pkg.	80-CER	28311-C
	120-CER	28313-C
	Expanding Rubber Drum - Std. Pkg. 1	
CAP-C 3/8 x 5/8	60-AO	28320
	150-AO	28324
	280-AO	28328
Std. Pkg. 50	80-CER	28321-C
	120-CER	28323-C
	Expanding Rubber Drum - Std. Pkg. 1	
CAP-C 1/2 x 11/16	60-AO	28330
	150-AO	28334
	280-AO	28338
Std. Pkg. 50	80-CER	28331-C
	120-CER	28333-C
	Expanding Rubber Drum - Std. Pkg. 1	
CAP-C 5/8 x 1	60-AO	28340
	150-AO	28344
	280-AO	28348
Std. Pkg. 50	80-CER	28341-C
	120-CER	28343-C
	Expanding Rubber Drum - Std. Pkg. 1	

"G" Shape

Shape x Dia. x Length	Grit	Part #
CAP-G 3/16 x 7/16	80-AO	28391
	150-AO	28394
	280-AO	28398
Std. Pkg. 50	Expanding Rubber Drum - Std. Pkg. 1	
	50133	
	CAP-G 9/32 x 1/2	
Std. Pkg. 50	60-AO	28400
	150-AO	28404
	280-AO	28408
Expanding Rubber Drum - Std. Pkg. 1		50134
CAP-G 3/8 x 5/8	60-AO	28410
	150-AO	28414
	280-AO	28418
Std. Pkg. 50	Expanding Rubber Drum - Std. Pkg. 1	
	50135	
	CAP-G 1/2 x 11/16	
Std. Pkg. 50	60-AO	28420
	150-AO	28424
	280-AO	28428
Expanding Rubber Drum - Std. Pkg. 1		50136
CAP-G 5/8 x 1	60-AO	28430
	150-AO	28434
	280-AO	28438
Std. Pkg. 50	Expanding Rubber Drum - Std. Pkg. 1	
	50137	

The rigid design provides precision shaping and grinding on all types of metal. Their seamless construction allows use of their entire surface. *The nose radius remains consistent through their life - creating a repeatable shape with every replacement cap.*



"L" Shape

Shape x Dia. x Length	Grit	Part #
CAP-L 1/4 x 5/8	80-AO	28351
	150-AO	28354
	280-AO	28358
Std. Pkg. 50	80-CER	28351-C
	120-CER	28353-C
	Expanding Rubber Drum - Std. Pkg. 1	
CAP-L 7/16 x 1	60-AO	28360
	150-AO	28364
	280-AO	28368
Std. Pkg. 50	80-CER	28361-C
	120-CER	28362-C
	Expanding Rubber Drum - Std. Pkg. 1	
CAP-L 5/8 x 1-1/4	60-AO	28370
	150-AO	28374
	280-AO	28378
Std. Pkg. 50	80-CER	28371-C
	120-CER	28373-C
	Expanding Rubber Drum - Std. Pkg. 1	
CAP-L 27/32 x 1-9/16	60-AO	28380
	150-AO	28384
	280-AO	28388
Std. Pkg. 50	80-CER	28381-C
	120-CER	28383-C
	Expanding Rubber Drum - Std. Pkg. 1	

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Part numbers in
RED are stock

Cross Pads

Aluminum Oxide

Firestorm Ceramic is available on request



Primarily used for deburring holes and tubing, but also works great for close-tolerance work since their design allows the operator to "see through" the pad to precisely control the point of contact.

8-Ply - The most common, more flexible than 10 Ply
10-Ply - Use when more stiffness is required

Std. Pkg. 100

Dia. x Width	Ply	Grit	Item No.
3/4 x 3/8	8	60	27728
Max RPM 25,000		80	27729
3-48 Eyelet		120	27731
1 x 3/8	8	60	27739
Max RPM 25,000		80	27740
3-48 Eyelet		120	27742
1-1/2 x 1/2	8	60	27750
Max RPM 23,000		80	27751
8-32 Eyelet		120	27753
1-1/2 x 1/2	10	60	27761
Max RPM 23,000		80	27762
8-32 Eyelet		120	27764
2 x 1/2	8	60	27772
Max RPM 20,000		80	27773
8-32 Eyelet		120	27775
2 x 1/2	10	60	27783
Max RPM 20,000		80	27784
8-32 Eyelet		120	27786
2 x 3/4	8	60	27794
Max RPM 18,000		80	27795
8-32 Eyelet		120	27797

Dia. x Width	Ply	Grit	Item No.
2 x 3/4	10	60	27805
Max RPM 18,000		80	27806
1/4-20 Eyelet		120	27808
2 x 1	8	60	27816
Max RPM 18,000		80	27817
1/4-20 Eyelet		120	27819
2 x 1	10	60	27827
Max RPM 18,000		80	27828
1/4-20 Eyelet		120	27830
2-1/2 x 3/4	8	60	27904
Max RPM 18,000		80	27905
8-32 Eyelet		120	27907
2-1/2 x 3/4	10	60	27915
Max RPM 18,000		80	27916
1/4-20 Eyelet		120	27918
2-1/2 x 1	8	60	27926
Max RPM 16,000		80	27927
1/4-20 Eyelet		120	27929
2-1/2 x 1	10	60	27937
Max RPM 16,000		80	27938
1/4-20 Eyelet		120	27940

Dia. x Width	Ply	Grit	Item No.
2-1/2 x 1-1/2	8	60	27948
Max RPM 14,000		80	27949
1/4-20 Eyelet		120	27951
2-1/2 x 1-1/2	10	60	27959
Max RPM 14,000		80	27960
1/4-20 Eyelet		120	27962
3 x 1	8	60	27970
Max RPM 14,000		80	27971
1/4-20 Eyelet		120	27973
3 x 1	10	60	27981
Max RPM 14,000		80	27982
1/4-20 Eyelet		120	27984
3 x 1-1/2	8	60	27992
Max RPM 12,000		80	27993
1/4-20 Eyelet		120	27995
3 x 1-1/2	10	60	28003
Max RPM 12,000		80	28004
1/4-20 Eyelet		120	28006

Other sizes & grits are available.
Mandrels - page 29

Square Pads

Aluminum Oxide

Firestorm Ceramic is available on request



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

Std. Pkg. 100

Width / Thick.	Grit	Item No.
1-1/2" x 1/4"	60	26423
Max RPM 23,000	80	26424
8-32 Eyelet	120	26426
1-1/2" x 3/8"	60	26434
Max RPM 23,000	80	26435
8-32 Eyelet	120	26437
1-1/2" x 1/2"	60	26445
Max RPM 20,000	80	26446
1/4-20 Eyelet	120	26448
2" x 1/4"	60	26456
Max RPM 20,000	80	26457
8-32 Eyelet	120	26459

Width / Thick.	Grit	Item No.
2" x 3/8"	60	26467
Max RPM 18,000	80	26468
8-32 Eyelet	120	26470
2" x 1/2"	60	26478
Max RPM 18,000	80	26479
1/4-20 Eyelet	120	26481
2-1/2" x 1/4"	60	26500
Max RPM 18,000	80	26501
1/4-20 Eyelet	120	26503
2-1/2" x 3/8"	60	26511
Max RPM 16,000	80	26512
1/4-20 Eyelet	120	26514

Width / Thick.	Grit	Item No.
2-1/2" x 1/2"	60	26522
Max RPM 14,000	80	26523
1/4-20 Eyelet	120	26525
3" x 1/4"	60	26533
Max RPM 14,000	80	26534
1/4-20 Eyelet	120	26536
3" x 3/8"	60	26544
Max RPM 13,000	80	26545
1/4-20 Eyelet	120	26547
3" x 1/2"	60	26555
Max RPM 12,000	80	26556
1/4-20 Eyelet	120	26558

Other sizes & grits are available. Mandrels - page 29

Spin-On Overlap Discs

Aluminum Oxide

Firestorm Ceramic is available on request

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

4/Set: Are also available upon request. They are designed to deburr both the front & back side of holes or tubing.

Std. Pkg. 100

Dia.	Eyelet	Grit	Item No.
1" Max. Rpm. 25,000	8-32	60	33957
		80	33958
		120	33960
1-1/4" Max. Rpm. 20,000	8-32	60	33969
		80	33970
		120	33972
1-1/2" Max. Rpm. 20,000	8-32	60	33981
		80	33982
		120	33984
2" Max. Rpm. 20,000	8-32	60	34005
		80	34006
		120	34008
2-1/2" Max. Rpm. 18,000	8-32	60	34029
		80	34030
		120	34032
3" Max. Rpm. 14,000	1/4-20	60	34053
		80	34054
		120	34056

Other sizes and grits available.



Flex-Shaft are now available



Eyelet Mandrels

Std. Pkg. 1

1/4" Shank

Thread x OAL	Item No.
3-48 x 2-1/2 OAL	50328
8-32 x 3" OAL	50329
8-32 x 6" OAL	50329-6
8-32 x 6" OAL Flex Shaft	50329-6-FS
1/4-20 x 3" OAL	50330
1/4-20 x 6" OAL	50330-6
1/4-20 x 6" OAL Flex Shaft	50330-6-FS



Zirc Flap Bands

Our Zirconia Flap Bands provide more aggressive stock removal and extended life than traditional Flap Wheels or No-Lap Spiral Bands. Great for working in small confined areas such as pipes and tubing. As the flaps wear, new sharp grain is exposed, providing fast cutting action through the entire life of the band.

Flap Bands

Std. Pkg. 10

Dia. x Width	Grit	Item No.	Max RPM	Item No.
1-1/4" x 3/4"	40	75701	26,000	50557
	60	75702		
	80	75703		
1-3/4" x 3/4"	40	75711	19,000	50558
	60	75712		
	80	75713		
1-3/4" x 1-3/16"	40	75721	19,000	50559
	60	75722		
	80	75723		
2-1/2" x 1-3/16"	40	75731	12,700	50560
	60	75732		
	80	75733		
3" x 1-3/16"	40	75741	9,500	50561
	60	75742		
	80	75743		

Slotted Rubber Expanding Drum

Std. Pkg. 1



No-Lap Spiral Bands

Aluminum Oxide

Firestorm Ceramic & Zirc are also available



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

Std. Pkg. 100

Dia. x Length	Grit	Item No.
1/2 x 1/2	60	76321
	80	76322
	120	76324
1/2 x 1	60	76333
	80	76334
	120	76336
3/4 x 1	60	76621
	80	76622
	120	76624
1 x 1	36	76762
	50	76764
	60	76765
	80	76766
	120	76768
1 x 1-1/2	60	76777
	80	76778
	120	76780
1-1/2 x 1	50	77124
	60	77125
	80	77126
	120	77128

Dia. x Length	Grit	Item No.
1-1/2 x 1-1/2	36	77134
	50	77136
	60	77137
	80	77138
2 x 1	120	77140
	36	77410
	50	77412
	60	77413
2 x 1-1/2	80	77414
	120	77416
	36	77422
	50	77424
2 x 2	60	77425
	80	77426
	120	77428
	36	77434
2 x 2	50	77436
	60	77437
	80	77438
	120	77440

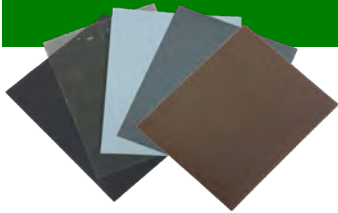
Rubber Drums

Std. Pkg. 1

Dia.	Length	Shank	Max RPM	Item No.
1/2	1/2	1/8	30,000	50506
	1/2	1/4	30,000	50507
	1	1/4	20,000	50510
3/4	1	1/4	19,000	50524
	1-1/2	1/4	12,000	50525
1	1	1/4	15,000	50533
	1-1/2	1/4	10,000	50534
1-1/2	1	1/4	14,000	50542
	1-1/2	1/4	10,000	50543
2	1	1/4	11,000	50547
	1-1/2	1/4	8,000	50548
	2	1/4	6,000	50549

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

9 x 11 Sheets



Cloth Sheets AO RB

Grit	Pkg.	Item No.
60-X	50	74104
80-J	50	74105
100-J	50	74106
120-J	50	74107
150-J	50	74108
180-J	50	74109
220-J	50	74110
240-J	50	74111
280-J	50	74112
320-J	50	74113
400-J	50	74114
500-J	50	74115
Crocus	50	74116

Wet / Dry S/C Paper

Grit	Pkg.	Item No.
60-C	50	74121
80-C	50	74122
100-C	50	74123
120-C	50	74124
150-C	50	74125
180-C	50	74126
220-A	50	74128
240-A	50	74129
280-A	50	74130
320-A	50	74131
400-A	50	74133
500-A	50	74134
600-A	50	74135
800-A	50	74135-1
1000-A	50	74135-2
1200-A	50	74136
1500-A	50	74137
2000-A	50	74138
2500-A	50	74139
3000-A	50	74140

Premium W/D Sheets

Norton - "Black Ice"

Grits: 240-800 = A/O Grits: 1000-2500 = S/C

Norton's advanced coating technique utilizes a premium performance grain on a waterproof, curl-resistant backing for a consistent scratch pattern, and a fast cut. This process also makes it incredibly flexible so it will not crack when folded, eliminating the chance of wild scratches. The Norton Black Ice result is a smooth sanding paper that gives the ultimate finish.

Grit	Pkg.	Item No.
220-B	50	74128-N
240-B	50	74129-N
320-B	50	74131-N
400-B	50	74133-N
600-B	50	74135-N
800-B	50	74135-1-N
1000-B	50	74135-2-N
1200-B	50	74136-N
1500-B	50	74137-N
2000-B	50	74138-N
2500-B	50	74139-N

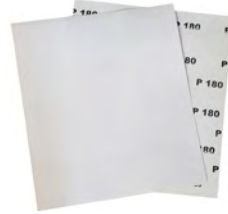
Emery Cloth

Crs.	50	74119
Med.	50	74118
Fine	50	74117

9 x 11 Sheets & Sponges

AO Stearate Paper

Grit	Pkg.	Item No.
80-C	50	74172
100-C	50	74173
120-C	50	74174
150-B	50	74175
180-B	50	74176
220-B	50	74177
320-B	50	74180
400-B	50	74181



Sponges



Std. Pkg. 12

Size	Grit / Side	Item No.
4 x 2-3/4 x 1"	100 / 100	39148
	60 / 100	39151

Shop Rolls (50 Yds. Long)

Std. Pkg. 1

Size	Grit	ECONOMY	ULTRA-FLEX
1" Wide	60	73034	73134
	80	73035	73135
	100	73036	73136
	120	73037	73137
	150	73038	73138
	180	73039	73139
	220	73040	73140
	240	73041	73141
	320	73043	73143
1-1/2" Wide	60	73049	73149
	80	73050	73150
	100	73051	73151
	120	73052	73152
	150	73053	73153
	180	73054	73154
	220	73055	73155
	240	73056	73156
	320	73058	73158
2" Wide	60	73064	73164
	80	73065	73165
	100	73066	73166
	120	73067	73167
	150	73068	73168
	180	73069	73169
	220	73070	73170
	240	73071	73171
	320	73073	73173
400	73074	73174	

Ultra-Flex Shop Rolls:

Water & Oil Resistant
Our Most Popular Material



Economy Shop Rolls:

Economically priced, flexible backing.



Crocus Rolls

1" x 50 Yds.	73193
1-1/2" x 50 Yds.	73194
2" x 50 Yds.	73195

Sandscreen rolls also available. 1" x 25 yds, 1-1/2" x 25 yds & 2" x 25 yds.

Resin Cloth Rolls (A/O X-wt.) 50 Yds. Long

Std. Pkg. 1

Width	36	40	50	60	80	100	120	180	240
2"	73461	73462	73463	73464	73465	73466	73467	73469	73471
3"	73479	73480	73481	73482	73483	73484	73485	73487	73489
6"	73524	73525	73526	73527	73528	73529	73530	73532	73534

Other sizes, grits and backings are available. Also available with PSA backing.

Reinforced Cut-Off Wheels



Competitive Products:

Firestorm HP

STAINLESS
STEEL

High Performance Grain & Bond provides outstanding productivity and long life on stainless steel and high tensile steel. Also works great on sheet metal and rusted bolts.

Flexovit - LL RazorBlade - A60SST
Bullard - Max Force - SGA-60U
Metabo - Super Slicer - A60XP
CGW - Quicke Cut ZA60S
Walter - A60 Zip Cut

Dewalt - FlexVolt
Norton - Blue Fire
Pferd - SGP Steelox
Sait - Saitech
3M - Cubitron

Alum. Oxide

STEEL
Ferrous or Non-ferrous

These wheels are considered a premium amongst other general-purpose wheels on the market. With a fast cut and long life, these wheels are a great choice for everyday work on most metals.

CGW - Super Quicke Cut
Bullard - High Energy TA60U
Metabo - LL Original Slicer A60XL
Sait - General Purp. .045 - A60S

Dewalt - Metal
Norton - Metal, Gemini
Pferd - PSF Universal
Flexovit - Brilliant

Small - High Speed Cut-Off Wheels

Hi-Performance - Firestorm HP

Dia. x Thick. x AH	Grade	Item No.	RPM Std. Pkg.
3 x .035 x 3/8	CA60T	87725-C3	25,000
3 x 1/16 x 3/8	CA46T	87726-C3	50/Box
4 x .035 x 3/8	CA60T	87742-C3	19,000
4 x 1/16 x 3/8	CA46T	87743-C3	50/Box

General Purpose - AO

Dia. x Thick. x AH	Grade	Item No.	RPM Std. Pkg.
3 x .035 x 1/4	A60T	87721	25,000
3 x .035 x 3/8	A60T	87725	
3 x 1/16 x 1/4	A46T	87722	50/Box
3 x 1/16 x 3/8	A46T	87726	
4 x .035 x 1/4	A60T	87738	19,000
4 x .035 x 3/8	A60T	87742	
4 x 1/16 x 3/8	A46T	87743	

IMPROVED! Hi-Performance slicer wheels now last even longer than before!

.045 Slicer Wheels

Hi-Performance - Firestorm HP

Dia. x Thick. x AH	Grade	Item No.	RPM Std. Pkg.
4-1/2 x .045 x 7/8 T-1	CA60T	87770-C3	13,300
4-1/2 x .045 x 7/8 T-27	CA60T	87770-C3-27	25/Box
6 x .045 x 7/8 T-1	CA60T	87781-C3	10,500
6 x .045 x 7/8 T-27	CA60T	87781-C3-27	25/Box

General Purpose - AO

Dia. x Thick. x AH	Grade	Item No.	RPM Std. Pkg.
4-1/2 x .045 x 7/8 T-1	A60T	87770	13,300
4-1/2 x .045 x 7/8 T-27	A60T	87770-27	50/Box
6 x .045 x 7/8 T-1	A60T	87781	10,500
6 x .045 x 7/8 T-27	A60T	87781-27	50/Box

Cut-Off Wheel Mandrels

Std. Pkg. 1

Description	Fits Hole	Shank	Item No.
A-100 (3-Pc. Set)	1/4 or 3/8	1/4"	50690
A-100-1/4	1/4"	1/4"	50691-1
A-100-3/8	3/8"	1/4"	50690-2



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

Mean Green - Grinding Wheels

T-27 Grinding Wheels



- **Save time & money** - Removes metal extremely fast. They also excel at removing scale without clogging!
- **Unique bond & wheel design** - Less chatter, smoother and quieter. Better operator control. Waffle pattern prevents loading - even on aluminum!
- **High Performance** - Proprietary Blend of Premium Grains
- **Contaminate Free** - (Virtually Iron Free) Contains only 0.035% iron, with less than 0.1% chlorine and sulfur.

"Original" Mean Green			
Size	Grade	Std. Pkg.	Item No.
4-1/2 x 7/8	36-CZ	5	88103-5
Max RPM 13,300		25	88103
4-1/2 x 5/8-11	36-CZ	5	88106-5
Max RPM 13,300		10	88106
7 x 7/8	36-CZ	5	88115-5
Max RPM 8,500		25	88115
7 x 5/8-11	36-CZ	5	88118-5
Max RPM 8,500		10	88118

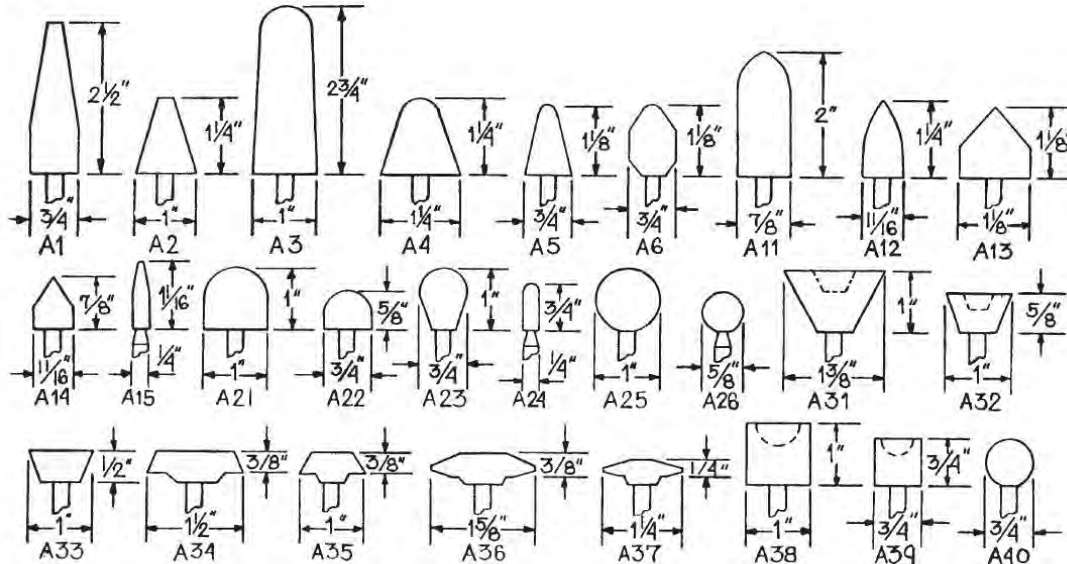
NEW, Thicker! Mean Green "MAX"			
Size	Grade	Std. Pkg.	Item No.
4-1/2 x 1/4 x 7/8	36-CZ	5	88123-5
Max RPM 13,300		20	88123
4-1/2 x 1/4 x 5/8-11	36-CZ	5	88126-5
Max RPM 13,300		10	88126
7 x 1/4 x 7/8	36-CZ	5	88135-5
Max RPM 8,500		20	88135
7 x 1/4 x 5/8-11	36-CZ	5	88138-5
Max RPM 8,500		10	88138

"A" Shape Vitrified Mtd. Pts. (All "A" shapes have 1/4" shanks)

Red: (Burnt Orange)

Blue: (Blue Grey)

Mounted points are ideal for deburring sharp edges, removing tooling marks, and mold flashing. The Red are considered general purpose, they are softer than Blue which makes them faster cutting. Blue stones are harder, making them more durable and longer lasting.



Std. Pkg. 25

Shape	Red	Blue
A1	80010	80015
A2	80025	80030
A3	80040	80045
A4	80055	80060
A5	80070	80075
A6	80085	80090
A11	80100	80105

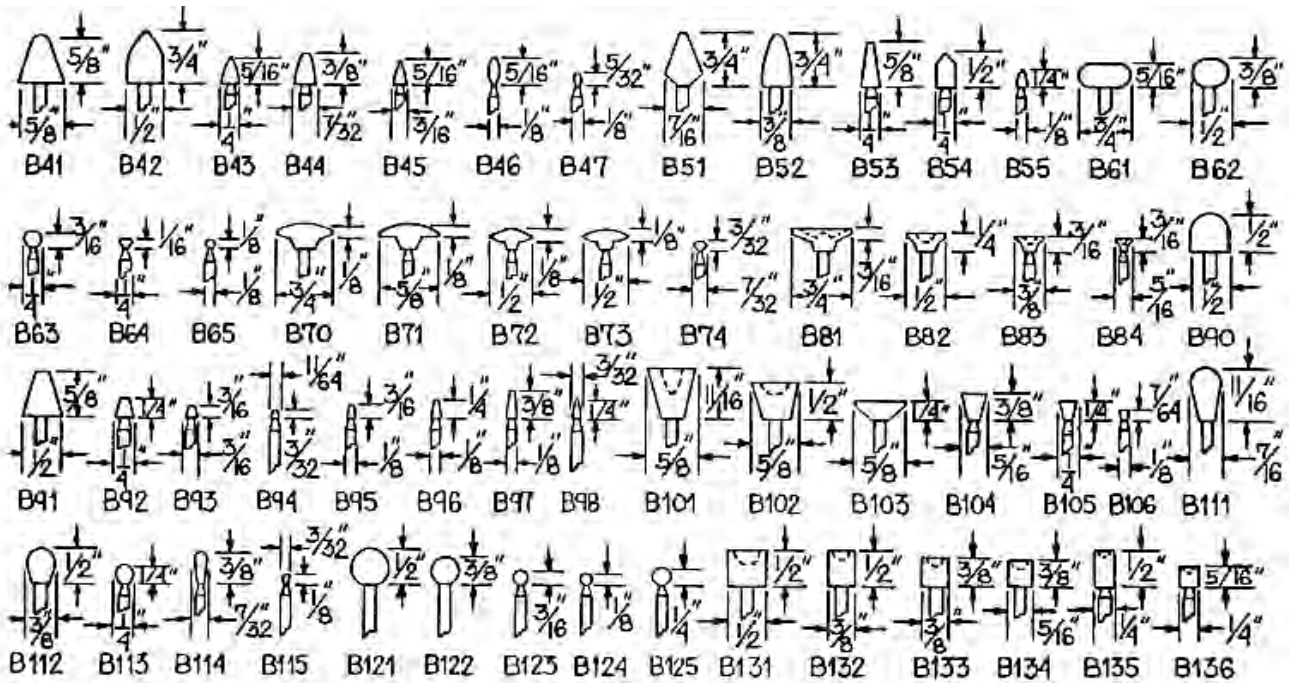
Shape	Red	Blue
A12	80115	80120
A13	80130	80135
A14	80145	80150
A15	80160	80165
A21	80175	80180
A22	80190	80195
A23	80205	80210

Shape	Red	Blue
A24	80220	80225
A25	80235	80240
A26	80250	80255
A31	80265	80270
A32	80280	80285
A33	80295	80300
A34	80310	80315

Shape	Red	Blue
A35	80325	80330
A36	80340	80345
A37	80355	80360
A38	80370	80375
A39	80385	80390
A40	80400	80405

Non-stock points are available in 2-3 days.

"B" Shape Vitrified Mtd. Pts. (All "B" shapes have 1/8" shanks)



Std. Pkg. 25

Shape	Red	Blue
B41	80415	80420
B42	80430	80435
B43	80445	80450
B44	80460	80465
B45	80475	80480
B46	80490	80495
B47	80505	80510
B51	80520	80525
B52	80535	80540
B53	80550	80555
B54	80565	80570
B55	80580	80585
B61	80595	80600
B62	80610	80615
B63	80625	80630

Shape	Red	Blue
B64	80640	80645
B65	80655	80660
B70	80670	80675
B71	80685	80690
B72	80700	80705
B73	80715	80720
B74	80730	80735
B81	80745	80750
B82	80760	80765
B83	80775	80780
B84	80790	80795
B90	80805	80810
B91	80820	80825
B92	80835	80840
B93	80850	80855

Shape	Red	Blue
B94	80865	80870
B95	80880	80885
B96	80895	80900
B97	80910	80915
B98	80925	80930
B101	80940	80945
B102	80955	80960
B103	80970	80975
B104	80985	80990
B105	81000	81005
B106	81015	81020
B111	81030	81035
B112	81045	81050
B113	81060	81065
B114	81075	81080

Shape	Red	Blue
B115	81090	81095
B121	81105	81110
B122	81120	81125
B123	81135	81140
B124	81150	81155
B125	81165	81170
B131	81180	81185
B132	81195	81200
B133	81210	81215
B134	81225	81230
B135	81240	81245
B136	81255	81260

Non-stock points are available in 2-3 days.

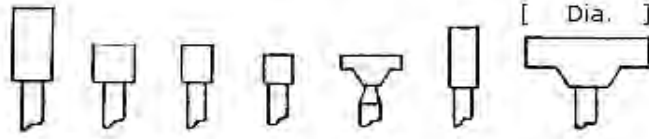
Mounted Point Kits (Red or Blue)

The 1/8" diameter shank set contains the following shapes (5 of each, 100 pcs. total).	B42, B45, B52, B81, B91, B97, B102, B122, B136, W144, W146, W152, W160, W163, W167, W175, W176, W185, W200, W215
The 1/4" diameter shank set contains the following shapes (5 of each, 50 pcs. total)	A4, A12, A14, A21, A32, A37, A39, A40, W206, W218



Kit Details	Red	Blue
1/8" Shank (100 pcs.)	82922	82923
1/4" Shank (50 pcs.)	82932	82933

"W" Shape Vitrified Mtd. Pts. (1/8 or 1/4" Shanks)



Shank Size: D1 = 1/8 x 1-1/2 Long
D2 = 1/4 x 1-1/2 Long

Min. Pkg. 25

Size	Dia. x Thk	Red	Blue
W141-D1	3/32 x 5/32	81270	81275
W142-D1	3/32 x 1/4	81285	81290
W143-D1	1/8 x 1/8	81300	81305
W144-D1	1/8 x 1/4	81315	81320
W145-D1	1/8 x 3/8	81330	81335
W146-D1	1/8 x 1/2	81345	81350
W149-D1	5/32 x 1/4	81360	81365
W151-D1	3/16 x 1/8	81375	81380
W152-D1	3/16 x 1/4	81390	81395
W153-D1	3/16 x 3/8	81405	81410
W154-D1	3/16 x 1/2	81420	81425
W157-D1	1/4 x 1/16	81435	81440
W158-D1	1/4 x 1/8	81450	81455
W159-D1	1/4 x 3/16	81465	81470
W160-D1	1/4 x 1/4	81480	81485
W161-D1	1/4 x 5/16	81495	81500
W162-D1	1/4 x 3/8	81510	81515
W163-D1	1/4 x 1/2	81525	81530
W164-D1	1/4 x 3/4	81540	81545
W165-D1	5/16 x 1/16	81555	81560
W166-D1	5/16 x 1/8	81570	81575
W167-D1	5/16 x 1/4	81585	81590
W168-D1	5/16 x 5/16	81600	81605
W169-D1	5/16 x 3/8	81615	81620
W170-D1	5/16 x 1/2	81630	81635
W171-D1	5/16 x 3/4	81645	81650
W172-D1	3/8 x 1/16	81660	81665
W173-D1	3/8 x 1/8	81675	81680
W174-D1	3/8 x 1/4	81690	81695
W175-D1	3/8 x 3/8	81705	81710
W176-D1	3/8 x 1/2	81720	81725
W176-D2	3/8 x 1/2	81735	81740
W177-D1	3/8 x 3/4	81750	81755
W177-D2	3/8 x 3/4	81765	81770
W178-D1	3/8 x 1	81780	81785
W178-D2	3/8 x 1	81795	81800
W179-D2	3/8 x 1-1/4	81810	81815
W181-D1	1/2 x 1/16	81825	81830

Size	Dia. x Thk	Red	Blue
W182-D1	1/2 x 1/8	81840	81845
W183-D1	1/2 x 1/4	81855	81860
W184-D1	1/2 x 3/8	81870	81875
W184-D2	1/2 x 3/8	81885	81890
W185-D1	1/2 x 1/2	81900	81905
W185-D2	1/2 x 1/2	81915	81920
W186-D1	1/2 x 3/4	81930	81935
W186-D2	1/2 x 3/4	81945	81950
W187-D1	1/2 x 1	81960	81965
W187-D2	1/2 x 1	81975	81980
W188-D2	1/2 x 1-1/2	81990	81995
W189-D2	1/2 x 2	82005	82010
W190-D1	5/8 x 1/16	82020	82025
W191-D1	5/8 x 1/8	82035	82040
W192-D1	5/8 x 1/4	82050	82055
W192-D2	5/8 x 1/4	82065	82070
W193-D1	5/8 x 3/8	82080	82085
W193-D2	5/8 x 3/8	82095	82100
W194-D1	5/8 x 1/2	82110	82115
W194-D2	5/8 x 1/2	82125	82130
W195-D1	5/8 x 3/4	82140	82145
W195-D2	5/8 x 3/4	82155	82160
W196-D2	5/8 x 1	82170	82175
W197-D2	5/8 x 2	82185	82190
W198-D2	5/8 x 2-1/2	82200	82205
W199-D1	3/4 x 1/16	82215	82220
W200-D1	3/4 x 1/8	82230	82235
W201-D1	3/4 x 1/4	82245	82250
W202-D1	3/4 x 3/8	82260	82265
W202-D2	3/4 x 3/8	82275	82280
W203-D1	3/4 x 1/2	82290	82295
W203-D2	3/4 x 1/2	82305	82310
W204-D1	3/4 x 3/4	82320	82325
W204-D2	3/4 x 3/4	82335	82340
W205-D2	3/4 x 1	82350	82355
W206-D2	3/4 x 1-1/4	82365	82370
W207-D2	3/4 x 1-1/2	82380	82385
W208-D2	3/4 x 2	82395	82400

Size	Dia. x Thk	Red	Blue
W209-D2	3/4 x 2-1/2	82410	82415
W210-D1	7/8 x 1/16	82425	82430
W211-D1	7/8 x 1/8	82440	82445
W212-D1	7/8 x 1/4	82455	82460
W212-D2	7/8 x 1/4	82470	82475
W213-D1	7/8 x 3/8	82485	82490
W213-D2	7/8 x 3/8	82500	82505
W214-D1	15/16 x 1/4	82515	82520
W214-D2	15/16 x 1/4	82530	82535
W215-D1	1 x 1/8	82545	82550
W215-D2	1 x 1/8	82560	82565
W216-D1	1 x 1/4	82575	82580
W216-D2	1 x 1/4	82590	82595
W217-D2	1 x 3/8	82605	82610
W218-D2	1 x 1/2	82620	82625
W219-D2	1 x 3/4	82635	82640
W220-D2	1 x 1	82650	82655
W221-D2	1 x 1-1/2	82665	82670
W222-D2	1 x 2	82680	82685
W223-D2	1 x 2-1/2	82695	82700
W225-D2	1-1/4 x 1/4	82710	82715
W226-D2	1-1/4 x 3/8	82725	82730
W227-D2	1-1/4 x 1/2	82740	82745
W228-D2	1-1/4 x 3/4	82755	82760
W229-D2	1-1/4 x 1	82770	82775
W230-D2	1-1/4 x 1-1/4	82785	82790
W231-D2	1-1/4 x 1-1/2	82800	82805
W232-D2	1-1/4 x 2	82815	82820
W235-D2	1-1/2 x 1/4	82830	82835
W236-D2	1-1/2 x 1/2	82845	82850
W237-D2	1-1/2 x 1	82860	82865
W238-D2	1-1/2 x 1-1/2	82875	82880
W239-D2	1-1/2 x 2	82890	82895
W242-D2	2 x 1	82905	82910
W243-D2	2 x 1-1/2	82920	82925
W244-D2	2 x 2	82935	82940

Non-stock points are available in 2-3 days.

Non-Woven Cross-Reference Chart

PREFERRED "Flex-N-Finish"® "

3M "Scotch-Brite"® "

STANDARD "BriteRite"® " NORTON "BEAR-TEX"® "

SURFACE CONDITIONING DISCS

A-CRS (BROWN)	A CRS	FE/GP/RC COARSE	RAPID PREP COARSE
A-MED (MAROON)	A MED	FE/GP/RC MEDIUM	RAPID PREP MED
A-Fine (GREEN)	N/A		RAPID PREP FINE
A-VF (BLUE)	A V-FINE	FE/GP/RC VERY FINE	RAPID PREP VERY FINE
S-SF (GRAY)	S SFN	N/A	RAPID PREP SUPER FINE
C-HD CRS (BROWN) Heavy Duty	SE A CRS	XD CRS	N/A
C-HD MED (MAROON) Heavy Duty	SE A MED	XD MED	N/A

SURFACE CONDITIONING BELTS

Air File Sizes

A-CRS X-FLEX (BROWN W/Green Back)	SCRIM COARSE	FE COARSE	RAPID PREP COARSE
A-MED X-FLEX (MAROON W/Green Back)	SCRIM MEDIUM	FE MEDIUM	RAPID PREP MED
A-VF X-FLEX (BLUE W/Green Back)	SCRIM VERY FINE	FE VERY FINE	RAPID PREP VERY FINE

Stationary Machine Sizes

A-CRS LS (BROWN Low Stretch)	L.S. COARSE	FE/RC COARSE	RAPID PREP COARSE
A-MED LS (MAROON Low Stretch)	L.S. MEDIUM	FE/RC MEDIUM	RAPID PREP MED
A-FINE LS (GREEN Low Stretch)	N/A	N/A	RAPID PREP FINE
A-VF LS (BLUE Low Stretch)	L.S. VERY FINE	FE/RC VERY FINE	RAPID PREP VERY FINE
S-SF LS (GRAY Low Stretch)	L.S. SUPER FINE	N/A	RAPID PREP SUPER FINE

HAND PADS, ROLLS & DISCS

#07440 HEAVY DUTY A/O (TAN)	#7440 CUT & POLISH MED. A/O	HEAVY DUTY A/O	#740 DARK TAN HD
#07446 S-MED (BLACK)	#7446 MEDIUM S/C	N/A	S M (GRAY)
A-FINE (MAROON)	CLEAN & FINISH FINE A/O	N/A	#644 MAROON FINE A/O
#07447 A-VF (MAROON)	#7447 CLEAN & FINISH V.F. A/O	GP A/O VERY FINE	#747 MAROON GP+ V-F A/O
#07450 SCOURING (GREEN)	#96 INDUSTRIAL	N/A	SCOURING #796
#07448 UF (GRAY) S/C	#7448 CLEAN & FINISH U.F. S/C	ULTRA FINE S/C	#748 GRAY FINAL SHINE S/C
#07445 CLEANING-NON ABRASIVE (WHITE)	CLEANSING PAD #7445	CLEANING WHITE	#456 CLEANING PAD

DISCS

HI-STRENGTH A-MED (MAROON)	HIGH STRENGTH MED. A/O	HP A/O MEDIUM	HIGH STRENGTH A/O (M)
HI-STRENGTH A-FINE (MAROON)	HIGH STRENGTH FINE. A/O	HP A/O FINE	HIGH STRENGTH A/O (F)
HI-STRENGTH A-VF (MAROON)	HIGH STRENGTH V. FINE A/O	HP A/O VERY FINE	HIGH STRENGTH A/O (VF)

CONVOLUTE WHEELS

DEBURRING XL2	EX2 & EX3	DEBURRING	SERIES 4000
DEBURRING XL	EXL	DEBURRING	SERIES 1000

UNITIZED WHEELS

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

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Convolute Wheels

"XL" Deburring Wheels:

Great for removing burrs or flashing, blending weld areas, blending scratch patterns or applying decorative finishes. The softer wheels (#6-7 hardness) provide slight conformability and will not overcut. **#8 wheels are the best starting point** if you are unsure of which wheel to use. #9 wheels can handle sharp burrs without premature shredding.

All wheels are 1/Box !

"XL2" Heavy Deburring Wheels:

Advanced resin system & high grain content make these the best choice for rapid stock removal & heavy deburring.

Std. Pkg. 1			XL	XL2
Size	Grade	Max RPM	Item No.	Item No.
6 x 1/2 x 1	7SF	6,000	545416	-
	8SF	6,000	545103	-
	9SF	6,000	545105	545105-XL2
6 x 1 x 1	6SF	6,000	545419	-
	7AF	6,000	545418	-
	7SF	6,000	545420	-
	8AM	6,000	545109	545109-XL2
	8SF	6,000	545110	545110-XL2
	8SM	6,000	545111	-
8 x 1 x 3	9SF	6,000	545112	545112-XL2
	7SF	4,500	545422	-
	8AM	4,500	545126	545126-XL2
	8SF	4,500	545127	545127-XL2
12 x 1 x 5	8SM	4,500	545128	-
	9SF	4,500	545129	545129-XL2
	8SF	3,000	545145	-
8 x 1 x 3	9AM	3,000	545147-9AM	-
	9SF	3,000	545147	-

Other sizes and grades are available.



Grade explanation:

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

RED Metal Finishing Wheels

Std. Pkg. 1			
Size	Grade	Max RPM	Item No.
6 x 1 x 1	5AM	6,000	545236
6 x 2 x 1	5AM	6,000	545238
8 x 1 x 3	5AM	4,500	545240
8 x 2 x 3	5AM	4,500	545242

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



GRAY Multi-Finishing Wheels

Std. Pkg. 1			
Size	Grade	Max RPM	Item No.
6 x 1 x 1	2SM	6,000	545201
6 x 2 x 1	2SM	6,000	545204
8 x 1 x 3	2SM	6,000	545207

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



GREEN Final Polish Wheels

Std. Pkg. 1			
Size	Grade	Max RPM	Item No.
6 x 1 x 1	GFP	4,750	545409
8 x 1 x 3	GFP	3,400	545411
8 x 2 x 3	GFP	3,400	545412

"FINAL POLISH" wheels will leave a "mirror like" finish on a variety of metals. Will not alter part geometry and do not require compound!



Arbor Hole Reducer Bushings

Std. Pkg. 1 Pair



Size	Item No.
Plastic set (1", 3/4", 5/8", 1/2")	10500
1" to 1/2"	10502
1" to 5/8"	10503
1" to 3/4"	10504
3" to 5/8" (Machined Steel)	105111-S
3" to 1" (Machined Aluminum)	105121
5" to 1" (Machined Aluminum)	105141



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Part numbers in
RED are stock

Surface Conditioning: Quick-Locks

Premium: Our #1 product. Great balance of fast cut and long life. Excellent for deburring, blending machine tool marks and general surface cleaning. The STIFF "Scrim Backed" material provides superior grain retention and resists loading & smearing on most materials.

Max Finish: These SOFT "Scrim Backed" discs provide more flexibility and will leave a smooth finish without any "stray" scratches making them ideal for aerospace applications where surface finish is the primary concern. Comparable to 3M ScotchBrite™! They are less aggressive than our Premium Discs.

General Purpose: These NEW discs are ideal for general purpose use. Durable, fast cutting & ECONOMICAL!

Heavy Duty: These RIGID discs contain a Ceramic / AO blend with additional grain & resin for added cut & durability. They provide the fastest stock removal. They are ideal for heavy deburring, and blending tool marks.

Premium



Dia.	Grit	Type "S"	Type "R"
1" Std. Pkg. 100	A-CRS	53437	53470
	A-MED	53438	53471
	A-VF	53439	53472
1-1/2" Std. Pkg. 100	A-CRS	53440	53473
	A-MED	53441	53474
	A-FINE	53441-4	53474-4
	A-VF	53442	53475
	S-SF	53442-5	53475-5
2" Std. Pkg. 50	A-CRS	53443	53476
	A-MED	53444	53477
	A-FINE	53444-4	53477-4
	A-VF	53445	53478
3" Std. Pkg. 25	A-CRS	53446	53479
	A-MED	53447	53480
	A-FINE	53447-4	53480-4
	A-VF	53448	53481
4" Std. Pkg. 25	A-CRS	53449	53485
	A-MED	53450	53486
	A-FINE	53450-4	53486-4
	A-VF	53451	53487
	S-SF	53452	53488

A-CRS (Brown)
A-MED (Maroon)
A-FINE (Green)
A-VF (Blue)
S-SF (Gray)



A-CRS (Brown)
A-MED (Maroon)
A-VF (Blue)

NEW!

General Purpose

Dia.	Grit	Type "S"	Type "R"
2" Std. Pkg. 50	A-CRS	53443-GP	53476-GP
	A-MED	53444-GP	53477-GP
	A-VF	53445-GP	53478-GP
3" Std. Pkg. 25	A-CRS	53446-GP	53479-GP
	A-MED	53447-GP	53480-GP
	A-VF	53448-GP	53481-GP



A-CRS (Brown)
A-MED (Maroon)
A-VF (Blue)

Max-Finish

Dia.	Grit	Type "S"	Type "R"
2" Std. Pkg. 50	A-CRS	53443-M	53476-M
	A-MED	53444-M	53477-M
	A-VF	53445-M	53478-M
3" Std. Pkg. 25	A-CRS	53446-M	53479-M
	A-MED	53447-M	53480-M
	A-VF	53448-M	53481-M



C-CRS (Brown)
C-MED (Maroon)

Heavy Duty

Dia.	Grit	Type "S"	Type "R"
2" Std. Pkg. 50	C-CRS	53443-HD	53476-HD
	C-MED	53444-HD	53477-HD
3" Std. Pkg. 25	C-CRS	53446-HD	53479-HD
	C-MED	53447-HD	53480-HD

Holder - page 13. Other sizes are available.

Surface Conditioning Belts

The open construction of the non-woven material enables aggressive cutting action and improved surface finish without fear of loading or gouging the workpiece. They can be used on conventional belt machines and most airfile sanders for deburring, surface conditioning, buffing & polishing.

Size	Mtl.	Grit	Item No.
1/2 x 12" Std. Pkg. 20	X-Flex	A-CRS	535015
		A-MED	535025
		A-VF	535035
1/2 x 18" Std. Pkg. 24	X-Flex	A-CRS	53512
		A-MED	53513
		A-VF	53514
1/2 x 24" Std. Pkg. 24	X-Flex	A-CRS	53524
		A-MED	53525
		A-VF	53526
3/4 x 18" Std. Pkg. 16	X-Flex	A-CRS	53532
		A-MED	53533
		A-VF	53534
3/4 x 20-1/2" Std. Pkg. 16	X-Flex	A-CRS	53535
		A-MED	53536
		A-VF	53537
1 x 30" Std. Pkg. 12	LS	A-CRS	535405
		A-MED	535415
		A-VF	535425
1 x 42" Std. Pkg. 12	LS	A-CRS	53556
		A-MED	53557
		A-VF	53558
1-1/2 x 60" Std. Pkg. 10	LS	A-CRS	535705
		A-MED	535715
		A-VF	535725
2 x 48" Std. Pkg. 6	LS	A-CRS	53660
		A-MED	53661
		A-VF	53662
2 x 60" Std. Pkg. 6	LS	A-CRS	53668
		A-MED	53669
		A-VF	53670
2 x 72" Std. Pkg. 6	LS	A-CRS	53676
		A-MED	53677
		A-VF	53678
		S-SF	53679

Size	Mtl.	Grit	Item No.
2 x 132" Std. Pkg. 6	LS	A-CRS	53696
		A-MED	53697
		A-VF	53698
2-1/2 x 60" Std. Pkg. 4	LS	A-CRS	53728
		A-MED	53729
		A-VF	53730
2-3/4 x 15-1/2" Std. Pkg. 10	X-Flex	A-CRS	53736
		A-MED	53737
		A-VF	53738
3 x 24" Std. Pkg. 8	LS	A-CRS	53752
		A-MED	53753
		A-VF	53754
3 x 132" Std. Pkg. 4	LS	A-CRS	53772
		A-MED	53773
		A-VF	53774
3-1/2 x 15-1/2" Std. Pkg. 10	X-Flex	A-CRS	53788
		A-MED	53789
		A-VF	53790
4 x 24" Std. Pkg. 6	LS	A-CRS	53800
		A-MED	53801
		A-VF	53802
4 x 54" Std. Pkg. 6	LS	A-CRS	53808
		A-MED	53809
		A-VF	53810
4 x 132" Std. Pkg. 3	LS	A-CRS	53824
		A-MED	53825
		A-VF	53826
4 x 168" Std. Pkg. 3	LS	A-CRS	53832
		A-MED	53833
		A-VF	53834
6 x 48" Std. Pkg. 4	LS	A-CRS	53856
		A-MED	53857
		A-VF	53858

GRADE / COLOR

- A-CRS (Brown)
- A-MED (Maroon)
- A-FINE (Green)
- A-VF (Blue)
- S-SF (Gray)



X-Flex:

is a softer material used primarily on narrow & short length belts. The flexible green backing offers improved grain retention when run on small diameter contact wheels. (Particularly well suited for airfile applications!)



LS (Low Stretch):

is stiffer and more aggressive than X-Flex, this material is used primarily on longer belts to reduce stretching.

Green (A-Fine) and Gray (S-SF) are also available.

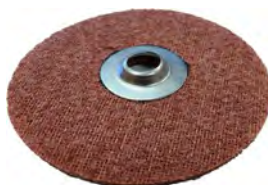
Surface Conditioning Discs with Quick-Lock Nut

Premium Quick-Lock - 5/8-11 thread

Std. Pkg. 20

(Fast cut with long life)

Dia.	Grade	List Ea.
4-1/2" x 5/8-11	A-CRS	52453H
	A-MED	52455H
	A-VF	52457H
5" x 5/8-11	A-CRS	52503H
	A-MED	52505H
	A-VF	52507H



Designed specifically to work with 5/8-11 quick-lock discs.

Includes 5 washers to accommodate different spindle lengths.

Low Profile B/U Pad

Std. Pkg. 1

Dia. x Internal Thrd.	Item No.
4-1/2" x 5/8-11	50431-LP
5" x 5/8-11	50432-LP

Surface Conditioning: H & L Discs

See descriptions on pg. 38

Premium

<i>(Fast cut with long life)</i>		
Dia.	Grade	Premium
4" Std. Pkg. 25	A-CRS	52403
	A-MED	52405
	A-VF	52407
	S-SF	52408
4-1/2" Std. Pkg. 20	A-CRS	52453
	A-MED	52455
	A-FINE	52456
	A-VF	52457
5" Std. Pkg. 20	A-CRS	52503
	A-MED	52505
	A-FINE	52506
	A-VF	52507
7" Std. Pkg. 20	A-CRS	52703
	A-MED	52705
	A-FINE	52706
	A-VF	52707
	S-SF	52708



Max-Finish

<i>(Leaves the best finish)</i>		
Dia.	Grade	Premium
4-1/2" Std. Pkg. 20	A-CRS	52453-C
	A-MED	52455-C
	A-VF	52457-C
5" Std. Pkg. 20	A-CRS	52503-C
	A-MED	52505-C
	A-VF	52507-C
7" Std. Pkg. 20	A-CRS	52703-C
	A-MED	52705-C
	A-VF	52707-C

General Purpose

<i>(Durable and ECONOMICAL)</i>		
Dia.	Grade	Premium
4-1/2" Std. Pkg. 20	A-CRS	52453-GP
	A-MED	52455-GP
	A-VF	52457-GP
5" Std. Pkg. 20	A-CRS	52503-GP
	A-MED	52505-GP
	A-VF	52507-GP
7" Std. Pkg. 20	A-CRS	52703-GP
	A-MED	52705-GP
	A-VF	52707-GP

H & L Holders

Dia. x Arbor	Max RPM	Item No.
4" x 5/8-11	15,000	53904SH
4-1/2" x 5/8-11	13,000	53904Z3
5" x 5/8-11	12,000	53905Z1
7" x 5/8-11	8,500	53907



To be used on discs shown above. These holders feature an extra long T-shaped hook for extra holder power.

SURFACE CONDITIONING - H & L Discs *with Center Hole*

Premium

<i>(Fast cut with long life)</i>		
Dia. x AH	Grade	Premium
4-1/2" x 7/8" AH ** Std. Pkg. 20	A-CRS	52453AH
	A-MED	52455AH
	A-VF	52457AH
5" x 7/8" AH ** Std. Pkg. 20	A-CRS	52503AH
	A-MED	52505AH
	A-VF	52507AH



Eliminate vibration or "fly-off". The centering post will keep the disc securely centered!

HD - Ceramic Heavy Duty

<i>(Most durable)</i>		
Dia. x AH	Grade	Heavy Duty
4-1/2" x 7/8 AH ** Std. Pkg. 20	C-CRS	52452AH
	C-MED	52454AH
5" x 7/8 AH ** Std. Pkg. 20	C-CRS	52502AH
	C-MED	52504AH



Self-Centering H & L Holders

Std. Pkg. 1

Dia. x Arbor	Max RPM	Item No.
4-1/2" x 5/8-11	13,000	53904Z3-CP
5" x 5/8-11	12,000	53905Z1-CP

** Recommended to use with self-centering holders shown above.

Surface Conditioning Products

Surf. Cond. Flap Discs

Dia.	Max RPM	Grit	Item No.
4-1/2" x 7/8" Std. Pkg. 5	13,300	A-CRS	53250
		A-MED	53251
		A-VF	53252
4-1/2" x 5/8-11" Std. Pkg. 5	13,300	A-CRS	53255
		A-MED	53256
		A-VF	53257

Layered flap design outlasts several conventional hook and loop discs. Vibration free, smooth running. *Ideal for TIG-weld seams on stainless steel.*



Surf. Cond. Stars

Dia.	Max RPM	Grade	Item No.
1-1/2" x 1/4-20 Std. Pkg. 50	25,000	A-CRS	55007
		A-MED	55008
		A-VF	55009
2" x 1/4-20 Std. Pkg. 50	20,000	A-CRS	55010
		A-MED	55011
		A-VF	55012
3" x 1/4-20 Std. Pkg. 25	12,000	A-CRS	55015
		A-MED	55016
		A-VF	55017
4" x 1/4-20 Std. Pkg. 25	10,000	A-CRS	55020
		A-MED	55021
		A-VF	55022
1/4-20 x 3" OAL EYELET MANDREL			50330

Surface conditioning stars are designed for cleaning and polishing the I.D. of tubing. Effective on stainless steel, aluminum, steel and most other metals.



All have 1/4-20 eyelets

Surf. Cond. Bands

Size	Max RPM	Grit	Item No.
1 x 1" Std. Pkg. 25	18,000	A-CRS	534940
		A-MED	534941
		A-VF	534942
1-1/2 x 1-1/2" Std. Pkg. 25	10,000	A-CRS	534950
		A-MED	534951
		A-VF	534952
2 x 2" Std. Pkg. 25	6,000	A-CRS	534960
		A-MED	534961
		A-VF	534962

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



Rubber drums - page 30

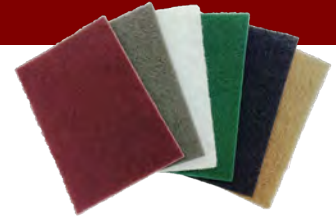
Cross-Buffs

Dia.	Max RPM	Grade	Item No.
1-1/2" x 1/4-20 Std. Pkg. 50 2-PLY	20,000	A- MED	56006
		A- FINE	56007
		A-VF	56008
2" x 1/4-20 Std. Pkg. 50 2-PLY	12,000	A- MED	56011
		A- FINE	56012
		A-VF	56013
3" x 1/4-20 Std. Pkg. 25 2-PLY	8,000	A- MED	56016
		A- FINE	56017
		A-VF	56018
1/4-20 x 3" OAL Eyelet Mandrel			50330

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



Flex-N-Finish Products



Flex-N-Finish 6" x 9" Hand Pads

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

Item No.	3M / Norton Equivalent	Color / Grade	Grit	Steel Wool Equivalent	Std. Pkg Qty.
07440	7440 / 740	Tan Medium A/O Heavy Duty	100-150	4	10/Shrink Wrap
07445	7445 / 456	White (Non-Abrasive)	-	0000	20/Box, 3 Boxes/Cs.
07446	7446 / 746	Black MED S/C for Stainless Steel	100-150	3	20/Box, 3 Boxes/Cs.
07447A	7447 / 747	Maroon VF A/O	240-360	1	20/Box, 3 Boxes/Cs.
07447A-P	7447 / 747	Maroon VF A/O (48 Cs. Pallet)	240-360	1	20/Box, 3 Boxes/Cs.
07448	7448 / 748	Gray UF S/C	800-1200	0000	20/Box, 3 Boxes/Cs.
07448-P	7448 / 748	Gray UF S/C (48 Cs. Pallet)	800-1200	0000	20/Box, 3 Boxes/Cs.
07450	96 / 796	Green GP Scouring #96	240-360	0	10/Shrink Wrap, 60/Cs.

Flex-N-Finish Rolls

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

Std. Pkg. 1 Roll

Size	Heavy Duty Tan*	A-MED Maroon	A-FINE Maroon	A-VF Maroon	S-UF Gray
2" x 30'	53033	53034	53035	53036	53039
4" x 30'	53045	53046	53047	53048	53051
6" x 30'	53057	53058	53059	53060	53063



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

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

Flex-N-Finish Discs

Great for satin and antique finishing, scratch blending and thread cleaning. Discs can be mounted individually or ganged on a shaft. For extra stiffness, use with side plates.

Heavy Duty: discs can handle light to moderate surface cleaning and deburring.

Hi-Strength: discs can handle medium to heavy surface cleaning and deburring. The high-strength fibers combined with a high grain content deliver a tough long lasting disc.

Std. Pkg. 25

		Arbor Hole Discs	
		Heavy Duty	Hi-Strength
Size	Grade	Item No.	Item No.
6 x 1/2" 3,600 RPM	A-MED	53136	53187-1
	A-FINE	53137	53187-2
	A-VF	53138	53187-3
8 x 1/2" 2,700 RPM	A-MED	53150	53188-1
	A-FINE	53151	53188-2
	A-VF	53152	53188-3



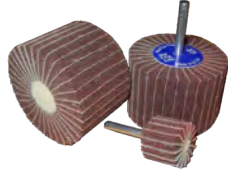
Other sizes & arbor holes available.

		Quick-Lock Discs			
		Heavy Duty		Hi-Strength	
Dia.	Grit	Type "S"	Type "R"	Type "S"	Type "R"
2" Std. Pkg. 50 12,000 RPM	A-MED	53343	53376	53384	53390
	A-FINE	53344	53377	53385	53391
	A-VF	53345	53378	53386	53392
3" Std. Pkg. 25 8,000 RPM	A-MED	53346	53379	53387	53393
	A-FINE	53347	53380	53388	53394
	A-VF	53348	53381	53389	53395



Flex-N-Finish Wheels

Interleaf Wheels: Consist of alternating flaps of coated and non-woven material. They provide some stock removal with a brushed finish. Great for blending scratch patterns. The smooth "cushioned feel" provides greater control and eliminates chatter at slow speeds.



Mtd. Interleaf Flap Wheels

Size	Max / Opt. RPM		Grit	Item No.
1 x 1 x 1/4" Std. Pkg. 5	15,000	10,500	MED/80	54117
			MED/120	54118
			MED/180	54119
2 x 1 x 1/4" Std. Pkg. 5	13,700	9,600	MED/80	54123
			MED/120	54124
			MED/180	54125
3 x 1 x 1/4" Std. Pkg. 5	8,600	6,000	MED/80	54131
			MED/120	54132
			MED/180	54133
3 x 2 x 1/4" Std. Pkg. 5	8,600	6,000	MED/80	54138
			MED/120	54139
			MED/180	54140



Unmounted Interleaf Flap Wheels

Size	Max / Opt. RPM		Grit	Item No.
6 x 1 x 2" Std. Pkg. 5	4,500	2,000	MED/80	54325
			MED/120	54326
			MED/180	54327
6 x 2 x 2" Std. Pkg. 5	4,500	2,000	MED/80	54328
			MED/120	54329
			MED/180	54330
8 x 1 x 3" Std. Pkg. 3	4,000	1,500	MED/80	54341
			MED/120	54342
			MED/180	54343



Mtd. Disc Wheels can handle light to moderate surface cleaning and deburring, satin and antique finishing, scratch blending and thread cleaning. They are more conformable than finishing flap wheels.

Finishing Wheels: Consist of all non-woven material. They are great at conforming to irregular surfaces for light to moderate surface cleaning, satin and antique finishing and scratch blending.

Tan wheels are comparable to 3M's Cut & Polish at a significant cost savings!



Mtd. Finishing Flap Wheels

Size	Max / Opt. RPM		Grit	Item No.
2 x 1 x 1/4" Std. Pkg. 10	13,700	9,600	TAN	5400201
			MED	54020103
			FINE	54020105
			VF	54020107
3 x 1 x 1/4" Std. Pkg. 10	8,600	6,000	TAN	5400301
			MED	54030103
			FINE	54030105
			VF	54030107
3 x 2 x 1/4" Std. Pkg. 10	8,600	6,000	TAN	5400302
			MED	54030203
			FINE	54030205
			VF	54030207



Unmounted Finishing Flap Wheels

Size	Max / Opt. RPM		Grit	Item No.
6 x 1 x 2" Std. Pkg. 5	4,500	2,000	MED	54421
			FINE	54422
6 x 2 x 2" Std. Pkg. 5	4,500	2,000	MED	54426
			FINE	54427
8 x 1 x 3" Std. Pkg. 3	4,000	1,500	MED	54433
			FINE	54434
8 x 2 x 3" Std. Pkg. 2	4,000	1,500	MED	54441
			FINE	54442

Mtd. Disc Wheels

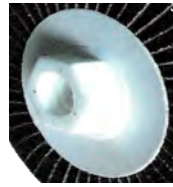
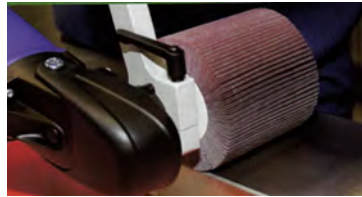
Size	Max / Opt. RPM		Grit	Item No.
2 x 1/2 x 1/4" Std. Pkg. 5	12,000	5,000	MED	54213
			FINE	54215
2 x 1 x 1/4" Std. Pkg. 5	12,000	5,000	MED	54217
			FINE	54219
3 x 1/2 x 1/4" Std. Pkg. 5	8,000	4,000	MED	54221
			FINE	54223
3 x 1 x 1/4" Std. Pkg. 5	8,000	4,000	MED	54225
			FINE	54227

Other sizes and grades available for all items above.

Non-Woven Flap Drums



Quad Keyway



5/8-11 Spin-On

Interleaf & Non-Woven

Non-woven and Interleaf drums should always be run at lower speeds than coated abrasives. This will extend the drum life and improve finish.

OPTIMUM RPM is 2000

Interleaf Flap Drums

Std. Pkg. 1

Dia. x Width x AH	Grit	Part #
4 x 4 x 3/4" Quad Keyway 5000 Max RPM	60-CRS	54285
	80-MED	54286
	120-MED	54287
	150-FINE	54288
	240/V. FINE	54289

2" wide wheels are also available.



Dia. x Width x AH	Grit	Part #
4-1/4 x 4 x 5/8-11 Spin-On Hub 5000 Max RPM	60-CRS	54296
	80-MED	54297
	120-MED	54298
	150-FINE	54299
	180-FINE	54300
	240/V. FINE	54301

Non-Woven Finishing Flap Drums

Std. Pkg. 1

Dia. x Width x AH	Grit	Part #
4 x 4 x 3/4" Quad Keyway 5000 Max RPM**	CRS	54307
	MED	54308
	FINE	54309
	VERY FINE	54310
	ULTRA FINE	54311

2" wide wheels are also available.



Dia. x Width x AH	Grit	Part #
4-1/4 x 4 x 5/8-11 Spin-On Hub 5000 Max RPM**	CRS	54317
	MED	54318
	FINE	54319
	VERY FINE	54320
	ULTRA FINE	54321

Flex-N-Strip Discs

Black - S/C General Purpose, rust & paint removal.

Purple - S/C Heavy Duty, rust & paint removal.

Orange - Ceramic, long life & nice finish.

Type 27 Discs

Std. Pkg. 5

Dia. x AH		RPM		Item No.
		Max	Optimum	
4-1/2 x 7/8"	Black	11,500	3,000	57041
	Purple	11,500	3,000	57042
	Orange	11,500	3,000	57044



Type "R" Quick-Lock Discs

Std. Pkg. 10

Diameter	Color	RPM		Item No.
		Max	Optimum	
2"	Black	12,000	7,000	57050
	Purple	12,000	7,000	57052
	Orange	12,000	7,000	57053
3"	Black	8,500	5,000	57060
	Purple	8,500	5,000	57062
	Orange	8,500	5,000	57063



Unitized Wheels



Unitized Wheels provide a consistent, uniform finish on most materials. They can be used on highly alloyed materials without smearing. They can be run in either direction.

XL Wheels: Good choice for light deburring & blending. Smear resistant formula.

CP Wheels: These cut and polish wheels are a better choice for light weld bead & weld spatter removal, heavy deburring & finishing.

Competitive Grades

(Softest to Hardest)

Dia. x Width x AH	Std. Pkg.	Max RPM	Type	Grade	Item No.
1 x 1 x 3/16	50	25,000	XL	2SF	544892
		35,000		6AM	544893
		35,000		6SF	544894
		35,000		8AM	544895
		35,000		8AC	544896
2 x 1/4 x 1/4	60	18,000	XL	2AM	544906
		18,000		2SF	544907
		22,000	CP	7AM	545006
3 x 1/8 x 1/4 3 x 1/8 x 3/8	40	18,000	CP	7AM	545016
		18,000	CP	7AM	545018
3 x 1/4 x 1/4	40	12,000	XL	2AM	544911
		12,000		2SF	544912
		18,000		6AM	544913
		18,000		8AM	544914
		18,000		8AC	544915
		18,000	CP	5AM	545019
		18,000		7AM	545020
6 x 1/2 x 1	4	4,700	XL	2SF	544936
		6,000	CP	5AF	545047
		6,000	CP	7AM	545051
6 x 1 x 1	2	4,700	XL	2SF	544939
		6,000	CP	7AM	545056

Other sizes, grades and arbor holes available on request.

XL Comparison

Preferred	3-M	Standard	Norton
2SF XL	EXL 2S FIN	532	NEX - 2SF
2AM XL	EXL 2A MED	521	NEX - 2AM
6SF XL	EXL 6S FIN	732	NEX - 6SF
6AF XL	EXL 6A FIN	731	NEX - 6AF
6AM XL	EXL 6A MED	-	NEX - 6AM
8AM XL	EXL 8A MED	821, 921	NEX - 8AM
8SM XL	EXL 8S MED	-	NEX - 8SM
8AC XL	EXL 8A CRS	811, 911	NEX - 8AC

CP Comparison

5AF CP	CP-5A FIN	731	Vortex 5AF
5AM CP	CP-5A MED	-	Vortex 5AM
5SF CP	CP-5S FIN	732	-
7AC CP	CP-7A CRS	811, 911, 913	-
7AM CP	CP-7A MED	821, 921	Vortex 7AM
7SM CP	CP-7S MED	-	-

Unitized Wheel Mandrels

Std. Pkg. 1

Fits Hole	Shank Dia.	Max Wheel Thick.	Max Wheel Dia.	Washer Diameter	Competitors Style #	Item No.	
3/16"	1/4	1"	1"	n/a	946	50801	
1/4"	1/4	1"	2"	0.625	932	50794	
1/4"	1/4	1"	3"	1"	933	50795	
1/4"	1/4	3/4"	2"	0.5	n/a	50802	
3/8"	1/4	1"	3"	0.75	n/a	50803	
1/4"	1/4	1/8-1/4"	3"	n/a	n/a	50690-1	
3/8"	1/4	1/8-1/4"	3"	n/a	n/a	50690-2	
1/4"	1/4	1/4-1/2"	3"	n/a	n/a	50690-3	

Unitized Quick-Lock Discs (Type R)



Dia. / Thick.	Max RPM	Type	Grade	Type "R"
2" x 1/4"	18,000	XL	GFP	544591
	18,000		2AM	544600
	18,000		2SF	544602
	22,000		6AM	544604
Std. Pkg. 60	18,000	CP	3AM	544603
	22,000		5AM	544603-5
	22,000		7AM	544605
3" x 1/4"	12,000	XL	GFP	544611
	12,000		2AM	544612
	12,000		2SF	544614
	18,000		6AM	544616
Std. Pkg. 40	12,000	CP	3AM	544615
	18,000		5AM	544617
	18,000		7AM	544619

Quick-Lock holders - page 13

XL wheels - Best choice for light deburring & blending.

2AM & 2SF: Soft, open structure. Less burning or loading. They will remove light imperfections & burrs.

6AM: Harder and more durable. Capable of heavier deburring & surface finishing.

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

CP wheels - Better choice for light weld bead and weld splatter removal and heavy deburring and finishing applications.

3AM, 5AM, 7AM: High performance engineered grain. Harder and more durable than XL wheels. Aggressive fast stock removal with long life.

Unitized Finishing Discs (Type 27)

4A-CRS, 4S-MED, 4S-VF: Excellent choice for light deburring and blending stainless steel and providing a smooth, bright finish.

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

6S-VFN: Green Final Polish Wheel

Dia. / AH	Max RPM	Grade	Grit	Item No.
4-1/2 x 7/8"	11,000	4A-CRS	120	546108
		4S-MED	180	546106
Std. Pkg. 10		4S-VF	240	546102
Std. Pkg. 5	15,100	6S-VFN	320	546100



Surface Prep Discs

Maroon (A/O Fine) Cleaning, blending, paint removal and finishing on most metals.

Gray (S/C Super Fine) Light scratch removal, polishing or satin finishing on aluminum

Surface Prep Type "R"

Dia. / Thick.	Max RPM	Grade	Type "R"
2" x 1/2"	18,000	A-FINE	546020
		S-SF	546021

Quick-Lock holders - page 13



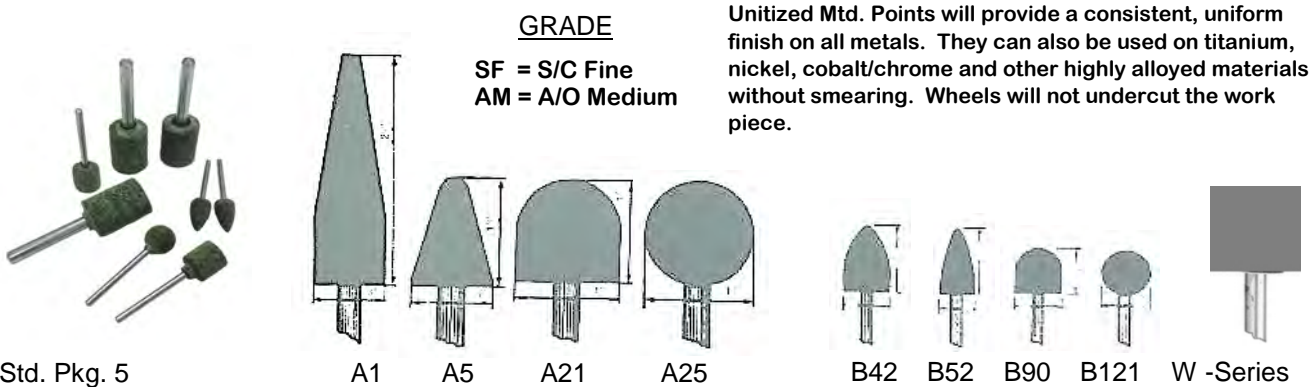
Do not use on sharp edges or burrs!

Surface Prep T-27

Dia. / AH	Max RPM	Grade	Item No.
4-1/2 x 7/8"	11,000	A-FINE	546040
		S-SF	546041



Unitized Mtd. Points



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

Std. Pkg. 5

Shape	Dia. x Lgth. x Sh.	Grade	Item No.
A-1	3/4 x 2-1/2 x 1/4 19,800 RPM	SF	54944
		AM	54945
A-5	3/4 x 1-1/8 x 1/4 38,550 RPM	SF	54950
		AM	54951
A-21	1 x 1 x 1/4 34,500 RPM	SF	54953
		AM	54954
A-25	1 x 1 x 1/4 35,600 RPM	SF	54956
		AM	54957
B-42	1/2 x 3/4 x 1/8 33,750 RPM	SF	54959
		AM	54960
B-52	3/8 x 3/4 x 1/8 45,300 RPM	SF	54962
		AM	54963

Shape	Dia. x Lgth. x Sh.	Grade	Item No.
B-90	1/2 x 1/2 x 1/8 34,500 RPM	SF	54965
		AM	54966
B-121	1/2 x 1/2 x 1/8 45,300 RPM	SF	54968
		AM	54969
W-163	1/4 x 1/2 x 1/8 60,000 RPM	SF	54971
		AM	54972
W-185	1/2 x 1/2 x 1/8 34,500 RPM	SF	54977
		AM	54978
W-205	3/4 x 1 x 1/4 32,950 RPM	SF	54980
		AM	54981
W-220	1 x 1 x 1/4 25,500 RPM	SF	54983
		AM	54984

Other sizes are available on request.

See pages 33-35 for additional size information.

Cotton Fiber Mtd. Points

Cotton Fiber Mtd. Points are harder and more durable than Unitized Mtd. Points. They can be used on all materials including stainless, mild steel, cast parts, and exotic metals. They can also be used on aluminum without loading. They provide a smooth, chatter free operation making them easy to control.



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

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

Std. Pkg. 10

Shape	Dia. x Lgth. x Sh.	Grade	Item No.
B-52	3/8 x 3/4 x 1/8 45,300 RPM	A80-GFX	80531
		A80-MTX	80532
B-121	1/2 x 1/2 x 1/8 45,300 RPM	A80-GFX	81101
		A80-MTX	81102
W-163	1/4 x 1/2 x 1/8 60,000 RPM	A80-GFX	81521
		A80-MTX	81522
W-176	3/8 x 1/2 x 1/8 45,300 RPM	A80-GFX	81716
		A80-MTX	81717

Shape	Dia. x Lgth. x Sh.	Grade	Item No.
W-177	3/8 x 3/4 x 1/8 33,750 RPM	A80-GFX	81746
		A80-MTX	81747
W-185	1/2 x 1/2 x 1/8 34,500 RPM	A80-GFX	81901
		A80-MTX	81902
W-205	3/4 x 1 x 1/4 32,950 RPM	A80-GFX	82356
		A80-MTX	82357
W-220	1 x 1 x 1/4 25,500 RPM	A80-GFX	82646
		A80-MTX	82647

Other sizes & grades are available on request.

See pages 33-35 for additional size information.

Vitrified Mounted Points are shown on page 30

Cotton Fiber Products

Cotton Fiber Type 1 Wheels

GFX: (white) Flexible latex bond.

Soft bond for light deburring, blending and finishing. Blend and finish in one operation. Long life vs. unitized wheels.

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

MTX: (brown) Hard resin bond.

Hard bond works great for light to medium stock removal.



Std. Pkg. 10

Dia. x Width x AH	GFX				MTX	
	A54	A80	A120	Max RPM	A54	Max RPM
2 x 1/8 x 1/4	549861	549862	549863	18145	549865	27120
2 x 1/4 x 1/4	549871	549872	549873	18145	549875	27120
3 x 1/8 x 1/4	549901	549902	549903	12095	549905	18080
3 x 1/8 x 3/8	549911	549912	549913	12095	549915	18080
3 x 1/4 x 1/4	549921	549922	549923	12095	549925	18080
3 x 1/4 x 3/8	549931	549932	549933	12095	549935	18080
4 x 1/8 x 3/8	549951	549952	549953	9075	549955	13560
4 x 1/4 x 3/8	549971	549972	549973	9075	549975	13560

Other sizes, grades and arbor holes available. Use with cut-off wheel mandrels - page 32.

Cotton Fiber Quick-Lock Discs

Works great on Stainless & Aluminum. Grind and finish in one step. Non loading!
Long Life - outlast AO quick change discs 10:1. Won't smear on titanium or stainless.

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



Std. Pkg. 25

Dia.	Type	Max RPM	A24M	A36F	A54F	A80F	A120F
2"	R	30,000	550009	550010	550011	550012	550013
3"	R	20,000	550019	550020	550021	550022	550023

Quick Lock holders - page 13

Cotton Fiber Type 27 Flexible Grinding Discs

Std. Pkg. 10

Dia.	Max RPM	A36GFX	A54GFX
4-1/2 x 7/8	13,300	88150	88151
5 x 7/8	12,200	88153	88154
7 x 7/8	8,500	88156	88157
4-1/2 x 5/8-11	13,300	88160	88161
5 x 5/8-11	12,200	88163	88164
7 x 5/8-11	8,500	88166	88167



Cotton Fiber Type 27 Aluminum Grinding Discs

Std. Pkg. 10

Dia.	Max RPM	A36
4-1/2 x 7/8	13,300	88250
5 x 7/8	12,200	88251
7 x 7/8	8,500	88252
4-1/2 x 5/8-11	13,300	88260
5 x 5/8-11	12,200	88261
7 x 5/8-11	8,500	88262



ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.		
07440	42	10656FF	15	10913AF	15	11082-4	18	11172	18	11308	18	12246	18	13239	19	21166	25
07445	42	10663AF	15	10913FF	15	11082-5	18	11174	18	11336	18	12248	18	13241	19	21167	25
07446	42	10663FF	15	10913T-FF	16	11082-6	18	11176	18	11338	18	12250	18	13243	19	21167-C	25
07447A	42	10664AF	15	10914AF	15	11082-7	18	11178	18	11339	18	12343	18	13258	19	21168	25
07447A-P	42	10664FF	15	10914FF	15	11082-8	18	11179-3	18	11341	18	12345	18	13260	19	21168-C	25
07448	42	10665AF	15	10914T-FF	16	11090-3	18	11179-4	18	11343	18	12346	18	13262	19	21169	25
07448-P	42	10665FF	15	10915AF	15	11090-4	18	11179-5	18	11345	18	12348	18	13263	19	21170	25
07450	42	10666AF	15	10915FF	15	11090-5	18	11179-6	18	11347	18	12350	18	13284	19	21170-C	25
10241, -PC	20	10666FF	15	10915T-FF	16	11090-6	18	11179-7	18	11361-05	18	12352	18	13286	19	21172	25
10242, -PC	20	10813AF	15	10916AF	15	11090-7	18	11179-8	18	11361-06	18	12354	18	13287	19	21173	25
10243, -PC	20	10813FF	15	10916FF	15	11090-8	18	11182-3	18	11361-07	18	12804	17	13289	19	21174	25
10244, -PC	20	10813T-FF	16	10916T-FF	16	11091-3	18	11182-4	18	11361-08	18	12805	17	13291	19	21211	25
10246, -PC	20	10814AF	15	10917AF	15	11091-4	18	11182-5	18	11362	18	12807	17	13293	19	21212	25
10261, -PC	20	10814FF	15	10917FF	15	11091-5	18	11182-6	18	11364	18	12815	17	13295	19	21214	25
10263, -PC	20	10814T-FF	16	10918AF	15	11091-6	18	11182-7	18	11365	18	12816	17	13336	19	21223	25
10264, -PC	20	10815AF	15	10918FF	15	11091-7	18	11182-8	18	11367	18	12818	17	13338	19	21224	25
10266, -PC	20	10815FF	15	10918T-FF	16	11091-8	18	11195-3	18	11369	18	12826	17	13339	19	21226	25
10281, -PC	20	10815T-FF	16	10919AF	15	11104-3	18	11195-4	18	11371	18	12827	17	13341	19	21270	25
10283, -PC	20	10816AF	15	10919FF	15	11104-4	18	11195-5	18	11373	18	12829	17	13364	19	21271	25
10284, -PC	20	10816FF	15	10919T-FF	16	11104-5	18	11195-6	18	11375	18	12837	17	13365	19	21271-C	25
10286, -PC	20	10816T-FF	16	10920AF	15	11104-6	18	11195-7	18	11376	18	12838	17	13367	19	21272	25
10341, -PC	20	10817AF	15	10920FF	15	11104-7	18	11195-8	18	11377	18	12840	17	13388	19	21272-C	25
10343, -PC	20	10817FF	15	10920T-FF	16	11104-8	18	11206	18	11378	18	12848	17	13390	19	21274	25
10344, -PC	20	10823AF	15	10921AF	15	11117-3	18	11208	18	11379	18	12849	17	13391	19	21274-C	25
10346, -PC	20	10823FF	15	10921FF	15	11117-4	18	11209	18	11380	18	12851	17	13393	19	21276	25
10500	19	10824AF	15	10921T-FF	16	11117-5	18	11211	18	11381	18	12859	17	13395	19	21277	25
10502	19	10824FF	15	10923AF	15	11117-6	18	11213	18	11382	18	12860	17	13397	19	21282	25
10503	19	10825AF	15	10923FF	15	11117-7	18	11215	18	11383	18	12862	17	13399	19	21283	25
10504	19	10825FF	15	10924AF	15	11117-8	18	11217	18	11384	18	12870	17	14167	19	21283-C	25
105111-S	37	10826AF	15	10924FF	15	11127-3	18	11232	18	11385	18	12871	17	14169	19	21284	25
105121	37	10826FF	15	10925AF	15	11127-4	18	11234	18	11386	18	12873	17	14170	19	21284-C	25
105141	37	10827AF	15	10925FF	15	11127-5	18	11235	18	11388	18	12881	17	14172	19	21285	25
105121	37	10827FF	15	10926AF	15	11127-6	18	11237	18	11390	18	12882	17	14174	19	21286	25
105141	37	10853AF	15	10926FF	15	11127-7	18	11239	18	11391	18	12884	17	14176	19	21286-C	25
10613AF	15	10853FF	15	10927AF	15	11127-8	18	11241	18	11393	18	12892	17	14178	19	21288	25
10613FF	15	10854AF	15	10927FF	15	11128-3	18	11243	18	11395	18	12893	17	14232	19	21289	25
10613T-FF	16	10854FF	15	10928AF	15	11128-4	18	11258	18	11397	18	12895	17	14234	19	21290	25
10614AF	15	10855AF	15	10928FF	15	11128-5	18	11260	18	11399	18	12903	17	14235	19	21331	25
10614FF	15	10855FF	15	10929AF	15	11128-6	18	11261	18	11414	18	12904	17	14237	19	21331-C	25
10614T-FF	16	10856AF	15	10929FF	15	11128-7	18	11263	18	11416	18	12906	17	14284	19	21332	25
10615AF	15	10856FF	15	10930AF	15	11128-8	18	11265	18	11417	18	12914	17	14286	19	21332-C	25
10615FF	15	10863AF	15	10930FF	15	11129-3	18	11267	18	11419	18	12915	17	14287	19	21333	25
10615T-FF	16	10863FF	15	10931AF	15	11129-4	18	11269	18	11421	18	12917	17	14289	19	21334	25
10616AF	15	10864AF	15	10931FF	15	11129-5	18	11271	18	11423	18	12950	17	14291	19	21334-C	25
10616FF	15	10864FF	15	10953AF	15	11129-6	18	11273	18	11425	18	12951	17	14293	19	21336	25
10616T-FF	16	10865AF	15	10953FF	15	11129-7	18	11274	18	12148	18	12952	17	14295	19	21337	25
10617AF	15	10865FF	15	10954AF	15	11129-8	18	11276	18	12150	18	12953	17	14388	19	21338	25
10617FF	15	10866AF	15	10954FF	15	11139-1	18	11278	18	12151	18	12954	17	14390	19	21340	25
10623AF	15	10866FF	15	10955AF	15	11139-3	18	11280	18	12153	18	12955	17	14391	19	21341	25
10623FF	15	10870	17	10955FF	15	11139-4	18	11282	18	12155	18			14393	19	21343	25
10624AF	15	10871	17	10956AF	15	11139-5	18	11284	18	12157	18	13139-1		21136	25	21343-C	25
10624FF	15	10872	17	10956FF	15	11139-6	18	11286	18	12159	18	to	19	21137	25	21344	25
10625AF	15	10873	17	10963AF	15	11139-7	18	11287	18	12187	18	13139-6		21138	25	21344-C	25
10625FF	15	10880	17	10963FF	15	11139-8	18	11289	18	12189	18			21140	25	21345	25
10626AF	15	10881	17	10964AF	15	11156	18	11291	18	12190	18	13139-1-FX		21159	25	21346	25
10626FF	15	10882	17	10964FF	15	11157	18	11293	18	12192	18	to	19	21159-C	25	21346-C	25
10627AF	15	10883	17	10965AF	15	11159	18	11295	18	12194	18	13395-FX		21160	25	21348	25
10627FF	15	10900	17	10965FF	15	11161	18	11297	18	12196	18			21160-C	25	21349	25
10653AF	15	10901	17	10966AF	15	11163	18	11299	18	12198	18	13167		21161	25	21350	25
10653FF	15	10902	17	10966FF	15	11165	18	11300	18	12239	18	to	19	21162	25	21355	25
10654AF	15	10903	17	11082-3	18	11167	18	11302	18	12241	18	13237		21162-C	25	21356	25
10654FF	15	10906	17			11169	18	11304	18	12242	18			21164	25	21358	25
10655AF	15	10907	17			11170	18	11306	18	12244	18			21165	25	21439	25
10655FF	15	10908	17														
10656AF	15	10909	17														

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ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.		
21440	25	23624	26	27819	28	28358	27	30441-8	24	30514-8	24	31242-E	12	31464	12	31660	12
21442	25	26423	28	27827	28	28360	27	30441-C3	23	30514-C3	23	31243-E	12	31464-E	12	31660-E	12
21451	25	26424	28	27828	28	28361-C	27	30441-Z3	23	30514-Z3	23	31244-E	12	31465	12	31661	12
21452	25	26426	28	27830	28	28362-C	27	30442-8	24	30515-Z3	23	31250-E	12	31465-E	12	31662	12
21454	25	26434	28	27904	28	28364	27	30442-C3	23	30516-8	24	31251-E	12	31466	12	31662-E	12
21523	25	26435	28	27905	28	28368	27	30442-Z3	23	30516-C3	23	31252-E	12	31466-E	12	31663	12
21523-AH	25	26437	28	27907	28	28370	27	30443-8	24	30516-Z3	23	31253-E	12	31467	12	31663-E	12
21524	25	26445	28	27915	28	28371-C	27	30443-Z3	23	30522-8	24	31254-E	12	31467-E	12	31664	12
21524-AH	25	26446	28	27916	28	28373-C	27	30444-8	24	30522-Z3	23	31255-E	12	31468	12	31664-E	12
21526	25	26448	28	27918	28	28374	27	30444-Z3	23	30523-8	24	31256-E	12	31468-E	12	31665	12
21526-AH	25	26456	28	27926	28	28378	27	30446-8	24	30523-Z3	23	31258-E	12	31470	12	31665-E	12
21535	25	26457	28	27927	28	28380	27	30447-8	24	30524-8	24	31262-E	12	31471	12	31666	12
21535-AH	25	26459	28	27929	28	28381-C	27	30448-8	24	30524-Z3	23	31263-E	12	31472	12	31666-E	12
21536	25	26467	28	27937	28	28383-C	27	30450-8	24	30525-8	24	31264-E	12	31536FD	16	31667	12
21536-AH	25	26468	28	27938	28	28384	27	30450-C3	23	30525-Z3	23	31265-E	12	31538FD	16	31667-E	12
21538	25	26470	28	27940	28	28388	27	30450-Z3	23	30526-8	24	31266-E	12	31539FD	16	31668	12
21538-AH	25	26478	28	27948	28	28391	27	30451-8	24	30526-Z3	23	31267-E	12	31541FD	16	31668-E	12
21547-AH	25	26479	28	27949	28	28394	27	30451-Z3	23	30534-8	24	31268-E	12	31548FD	16	31670	12
21548-AH	25	26481	28	27951	28	28398-AH	27	30452-8	24	30534-Z3	23	31414-E	12	31550FD	16	31671	12
21550-AH	25	26500	28	27959	28	28400	27	30452-C3	23	30535-8	24	31415-E	12	31551FD	16	31672	12
21796	25	26501	28	27960	28	28404	27	30452-Z3	23	30535-Z3	23	31416-E	12	31553FD	16	31719	16
21799	25	26503	28	27962	28	28408	27	30453-8	24	30536-8	24	31417-E	12	31560	16	31719FD	16
21800	25	26511	28	27970	28	28410	27	30453-C3	23	30536-Z3	23	31418-E	12	31614-E	12	31721	16
21916	25	26512	28	27971	28	28414	27	30453-Z3	23	30537-8	24	31419-E	12	31615-E	12	31721FD	16
21919	25	26514	28	27973	28	28418	27	30454-8	24	30537-Z3	23	31420-E	12	31616-E	12	31722	16
21920	25	26522	28	27981	28	28420	27	30454-C3	23	30538-8	24	31438	12	31617-E	12	31722FD	16
23105	26	26523	28	27982	28	28424	27	30454-Z3	23	30538-Z3	23	31438-E	12	31618-E	12	31724	16
23105-C	26	26525	28	27984	28	28428	27	30455-8	24	30558-8	24	31439	12	31619-E	12	31724FD	16
23106	26	26533	28	27992	28	28430	27	30455-Z3	23	30558-Z3	23	31439-E	12	31620-E	12	31727	16
23106-C	26	26534	28	27993	28	28434	27	30456-8	24	30559-8	24	31440	12	31638	12	31727FD	16
23108	26	26536	28	27995	28	28438	27	30456-C3	23	30559-Z3	23	31440-E	12	31638-E	12	31729	16
23108-C	26	26544	28	28003	28	30357-30374-8	24	30456-Z3	23	30560-8	24	31441	12	31639	12	31729FD	16
23141	26	26545	28	28004	28	30381-8	24	30458-8	24	30560-Z3	23	31441-E	12	31639-E	12	31730	16
23141-C	26	26547	28	28006	28	30382-8	24	30459-8	24	30561-8	24	31442	12	31640	12	31730FD	16
23142	26	26555	28	28301	27	30383-8	24	30474-8	24	30561-Z3	23	31442-E	12	31640-E	12	31732	16
23142-C	26	26556	28	28302	27	30384-8	24	30475-8	24	30562-8	24	31443	12	31641	12	31732FD	16
23144	26	26558	28	28304	27	30386-8	24	30476-8	24	30562-Z3	23	31443-E	12	31641-E	12	319022	11
23144-C	26	27728	28	28304-C	27	30392-8	24	30477-8	24	30570-8	24	31444	12	31642	12	319023	11
23146	26	27729	28	28308	27	30393-8	24	30478-8	24	30570-Z3	23	31444-E	12	31642-E	12	319024	11
23285	26	27731	28	28310	27	30394-8	24	30480-8	24	30571-8	24	31449	12	31643	12	319025	11
23285-C	26	27739	28	28311-C	27	30395-8	24	30486-8	24	30571-Z3	23	31449-E	12	31643-E	12	319026	11
23286	26	27740	28	28313-C	27	30396-8	24	30487-8	24	30572-8	24	31450	12	31644	12	319027	11
23286-C	26	27742	28	28314	27	30398-8	24	30488-8	24	30572-Z3	23	31451	12	31644-E	12	319028	11
23288	26	27750	28	28318	27	30404-8	24	30489-8	24	30573-8	24	31451-E	12	31649	12	319031	11
23288-C	26	27751	28	28320	27	30405-8	24	30490-8	24	30573-Z3	23	31452	12	31649-E	12	319032	11
23321	26	27753	28	28321-C	27	30406-8	24	30492-8	24	30574-8	24	31452-E	12	31650	12	319033	11
23321-C	26	27761	28	28323-C	27	30407-8	24	30498-8	24	30574-Z3	23	31453	12	31650-E	12	319034	11
23322	26	27762	28	28324	27	30408-8	24	30499-8	24	30582-8	24	31453-E	12	31651	12	319035	11
23322-C	26	27764	28	28328	27	30410-8	24	30500-8	24	30583-8	24	31454	12	31651-E	12	319036	11
23324	26	27772	28	28330	27	30416-8	24	30501-8	24	30584-8	24	31454-E	12	31652	12	319037	11
23324-C	26	27773	28	28331-C	27	30417-8	24	30502-8	24	30585-8	24	31455	12	31652-E	12	319038	11
23326	26	27775	28	28333-C	27	30418-8	24	30504-8	24	31214-E	12	31455-E	12	31653	12	319041	11
23357	26	27783	28	28334	27	30419-8	24	30510-8	24	31215-E	12	31456	12	31653-E	12	319042	11
23358	26	27784	28	28338	27	30420-8	24	30510-C3	23	31216-E	12	31456-E	12	31654	12	319043	11
23360	26	27786	28	28340	27	30422-8	24	30510-Z3	23	31217-E	12	31458	12	31654-E	12	319044	11
23405	26	27794	28	28341-C	27	30438-8	24	30511-8	24	31218-E	12	31458-E	12	31655	12	319045	11
23406	26	27795	28	28343-C	27	30438-C3	23	30511-Z3	23	31219-E	12	31459	12	31655-E	12	319046	11
23408	26	27797	28	28344	27	30438-Z3	23	30512-8	24	31220-E	12	31460	12	31656	12	319047	11
23465	26	27805	28	28348	27	30439-8	3	30512-C3	23	31238-E	12	31461	12	31656-E	12	319048	11
23466	26	27806	28	28351	27	30439-Z3	23	30512-Z3	23	31239-E	12	31462	12	31658	12	319131	11
23468	26	27808	28	28351-C	27	30440-8	24	30513-8	24	31240-E	12	31462-E	12	31658-E	12	319132	11
23621	26	27816	28	28353-C	27	30440-C3	23	30513-C3	23	31241-E	12	31463	12	31659	12	319133	11
23622	26	27817	28	28354	27	30440-Z3	23	30513-Z3	23			31463-E	12	31659-E	12	319134	11

ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.		
319135	11	32565	11	34920-06	22	34935-17	21	35056-17	22	37112	14	37627	14	50253FM	13	50803	45
319136	11	32566	11	34920-07	22	34935-17-5	21	35056-18	22	37113	14	37628	14	50253-R	13	50931	17
319137	11	32567	11	34920-08	22	34935-17-8	21	35056-19	22	37114	14	37629	14	50253SF	13	50933	17
319138	11	32568	11	34920-10	22	34936-03	21	35056-21	22	37116	14	37630	14	50254	13	52403	40
319141	11	32638	11	34920-11	22	34936-05	21	35056-22	22	37118	14	37632	14	50254-R	13	52403-C	40
319142	11	32639	11	34920-14	22	34936-06	21	35062-05	21	37119	14	39148	31	50254FM	13	52405	40
319143	11	32640	11	34920-15	22	34936-06-6	21	35062-06	21	37120	14	39151	31	50254SF	13	52405-C	40
319144	11	32641	11	34920-17	22	34936-07	21	35062-07	21	37121	14	50102-2	26	50257	13	52407	40
319145	11	32642	11	34925-03	22	34936-08	21	35062-08	21	37122	14	50102-3	26	50258	13	52407-C	40
319146	11	32643	11	34925-05	22	34936-08-6	21	35062-10	21	37124	14	50104	26	50258-R	13	52408	40
319147	11	32644	11	34925-06	22	34936-09	21	35062-11	21	37126	14	50105	26	50259	13	52452AH	40
319148	11	32649	11	34925-07	22	34936-10	21	35062-12	21	37127	14	50108	26	50259-R	13	52453	40
319210	17	32650	11	34925-08	22	34936-10-6	21	35062-14	21	37128	14	50108-6	26	50259FM	13	52453AH	40
319211	17	32651	11	34925-10	22	34936-11	21	35062-15	21	37129	14	50109	26	50259SF	13	52453-C	40
319212	17	32652	11	34925-11	22	34936-11-6	21	35062-17	21	37130	14	50109-6	26	50260	13	52453-GP	40
319213	17	32653	11	34925-14	22	34936-14	21	35062-18	21	37131	14	50110	26	50260-R	13	52453H	39
319310	17	32654	11	34925-15	22	34936-15	21	35062-19	21	37202	14	50115	26	50260FM	13	52454AH	40
319311	17	32655	11	34925-17	22	34936-17	21	35062-21	21	37203	14	50116	26	50260SF	13	52455	40
319312	17	32656	11	34933-03	21	34967-05	22	35062-22	21	37204	14	50116-6	26	50264	13	52455AH	40
319313	17	32661	11	34933-05	21	34967-06	22	35063-05	21	37205	14	50117	26	50328	29	52455-C	40
32210	17	32662	11	34933-06	21	34967-07	22	35063-06	21	37206	14	50121	26	50329	29	52455-GP	40
32211	17	32663	11	34933-07	21	34967-08	22	35063-07	21	37208	14	50121-6	26	50329-6	29	52455H	39
32212	17	32664	11	34933-08	21	34967-09	22	35063-08	21	37209	14	50122	26	50329-6-FS	29	52456	40
32213	17	32665	11	34933-10	21	34967-10	22	35063-10	21	37210	14	50124	24	50330	29	52457	40
32310	17	32666	11	34933-11	21	34967-11	22	35063-11	21	37211	14	50125	24	50330-6	29	52457-C	40
32311	17	32667	11	34933-14	21	34967-12	22	35063-12	21	37212	14	50126	24	50330-6-FS	29	52457H	39
32312	17	32668	11	34933-15	21	34967-14	22	35063-14	21	37214	14	50127	24	50401	13	52502AH	40
32313	17	32749	11	34933-17	21	34967-15	22	35063-15	21	37215	14	50128	24	50404	13	52503	40
32438	11	32750	11	349331-05	21	34967-17	22	35063-17	21	37216	14	50129	27	50410	13	52503AH	40
32439	11	32751	11	349331-06	21	34972	22	35063-18	21	37217	14	50130	27	50411	13	52503-C	40
32440	11	32752	11	349331-07	21	34973	22	35063-19	21	37218	14	50131	27	50415	13	52503-GP	40
32441	11	32753	11	349331-08	21	34974	22	35063-21	21	37220	14	50132	27	50418	13	52503H	39
32442	11	32754	11	349331-10	21	34975	22	35063-22	21	37510	14	50133	27	50431	13	52504AH	40
32443	11	32755	11	349331-11	21	34976	22	35065-05	21	37511	14	50134	27	50431-LP	13	52505	40
32444	11	32756	11	349331-14	21	34977	22	35065-06	21	37512	14	50135	27	50432	13	52505AH	40
32449	11	32761	11	349331-15	21	34978	22	35065-07	21	37513	14	50136	27	50432-LP	13	52505-C	40
32450	11	32762	11	349331-17	21	34979	22	35065-08	21	37514	14	50137	27	50433	13	52505-GP	40
32451	11	32763	11	34935-03	21	34981	22	35065-10	21	37516	14	50201	24	50436	13	52505H	39
32452	11	32764	11	34935-05	21	34982	22	35065-11	21	37518	14	50204	24	50437	13	52506	40
32453	11	32765	11	34935-05-5	21	34983	22	35065-12	21	37519	14	50206	24	50438	13	52507	40
32454	11	32766	11	34935-05-8	21	35066-05	22	35065-14	21	37520	14	50208	24	50506	30	52507-C	40
32455	11	32767	11	34935-06	21	35055-06	22	35065-15	21	37521	14	50209	24	50507	30	52507H	39
32456	11	32768	11	34935-06-5	21	35055-07	22	35065-17	21	37522	14	50210	24	50510	30	52508	40
32461	11	33957	29	34935-06-8	21	35055-08	22	35065-18	21	37524	14	50214	24	50524	30	52703	40
32462	11	33958	29	34935-07	21	35055-10	22	35065-19	21	37526	14	50215	22	50525	30	52703-C	40
32463	11	33960	29	34935-07-5	21	35055-11	22	35065-21	21	37527	14	50215-5	22	50533	30	52703-GP	40
32464	11	33969	29	34935-07-8	21	35055-12	22	35065-22	21	37528	14	50216	22	50534	30	52705	40
32465	11	33970	29	34935-08	21	35055-14	22	35066-05	21	37529	14	50216-6	22	50542	30	52705-C	40
32466	11	33972	29	34935-08-5	21	35055-15	22	35066-06	21	37530	14	50217	22	50543	30	52705-GP	40
32467	11	33981	29	34935-08-8	21	35055-17	22	35066-07	21	37532	14	50217-5	22	50547	30	52706	40
32468	11	33982	29	34935-09-5	21	35055-18	22	35066-08	21	37610	14	50217-8	22	50548	30	52707	40
32549	11	33984	29	34935-09-8	21	35055-19	22	35066-10	21	37611	14	50218	22	50549	30	52707-C	40
32550	11	34005	29	34935-10	21	35055-21	22	35066-11	21	37612	14	50218-6	22	50557	29	52708	40
32551	11	34006	29	34935-10-5	21	35055-22	22	35066-12	21	37613	14	50230	13	50558	29	53033	42
32552	11	34008	29	34935-10-8	21	35056-05	22	35066-14	21	37614	14	50234	13	50559	29	53034	42
32553	11	34029	29	34935-11	21	35056-06	22	35066-15	21	37616	14	50237	13	50560	29	53035	42
32554	11	34030	29	34935-11-5	21	35056-07	22	35066-17	21	37618	14	50240	13	50561	29	53036	42
32555	11	34032	29	34935-11-8	21	35056-08	22	35066-18	21	37619	14	50240SF	13	50690	32	53039	42
32556	11	34053	29	34935-14	21	35056-10	22	35066-19	21	37620	14	50241	13	50690-1	32	53045	42
32561	11	34054	29	34935-14-5	21	35056-11	22	35066-21	21	37621	14	50241SF	13	50690-2	32	53046	42
32562	11	34056	29	34935-14-8	21	35056-12	22	35066-22	21	37622	14	50250	13	50690-3	45	53047	42
32563	11	34920-03	22	34935-15	21	35056-14	22	37110	14	37624	14	50251	13	50794	45	53048	42
32564	11	34920-05	22	34935-15-5	21	35056-15	22	37111	14	37626	14	50252	13	50795	45	53051	42
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ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.		
53057	42	53444-M	38	53533	39	53905	23	54370	20	545147-9AM	37	549921	48	69932	10	70075-Z3	7
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53059	42	53445-5	38	53535	39	53905IV	23	54421	43	545204	37	549923	48	69935	10	70076-C3	7
53060	42	53445-M	38	53536	39	53905IV-5	23	54422	43	545207	37	549925	48	69937	10	70076-Z3	7
53063	42	53446	38	53537	39	53905IV-8	23	54426	43	545236	37	549931	48	69944	10	70077	7
53136	42	53446-HD	38	535405	39	53905F	23	54427	43	545238	37	549932	48	69945	10	70077-C3	7
53137	42	53447	38	535415	39	53905F-5	23	54433	43	545240	37	549933	48	69947	10	70077-Z3	7
53138	42	53447-4	38	535425	39	53905F-8	23	54434	43	545242	37	549935	48	69949	10	70078	7
53150	42	53447-HD	38	53556	39	53905Z1	40	54441	43	545409	37	549951	48	69956	10	70078-C3	7
53151	42	53447-GP	38	53557	39	53905Z1-CP	40	54442	43	545411	37	549952	48	69957	10	70078-Z3	7
53152	42	53447-M	38	53558	39	53906	23	544591	46	545412	37	549953	48	69959	10	700811-02	7
53187-1	42	53448	38	535705	39	53906-6	23	544600	46	545416	37	549955	48	69961	10	700811-02-C3	7
53187-2	42	53448-5	38	535715	39	53906IV	23	544602	46	545418	37	549971	48	70045	7	700811-02-Z3	7
53187-3	42	53448-M	38	535725	39	53906IV-6	23	544603	46	545419	37	549972	48	70045-C3	7	700811-03	7
53188-1	42	53470	38	53660	39	53906F	23	544603-5	46	545420	37	549973	48	70045-Z3	7	700811-03-C3	7
53188-2	42	53471	38	53661	39	53906F-6	23	544604	46	545422	37	549975	48	70046	7	700811-03-Z3	7
53188-3	42	53472	38	53662	39	53907	23	544605	46	546020	46	550009	48	70046-C3	7	700811-04	7
53250	41	53473	38	53668	39	5400201	43	544611	46	546021	46	550010	48	70046-Z3	7	700811-04-C3	7
53251	41	53474	38	53669	39	5400301	43	544612	46	546040	46	550011	48	70047	7	700811-04-Z3	7
53252	41	53475	38	53670	39	5400302	43	544614	46	546041	46	550012	48	70047-C3	7	700811-05	7
53255	41	53476	38	53676	39	54020103	43	544615	46	546100	46	550013	48	70047-Z3	7	700811-05-C3	7
53256	41	53476-HD	38	53677	39	54020105	43	544616	46	546102	46	550019	48	70048	7	700811-05-Z3	7
53257	41	53476-M	38	53678	39	54020107	43	544617	46	546106	46	550020	48	70048-C3	7	700811-06	7
53343	42	53476-GP	38	53679	39	54030103	43	544619	46	546108	46	550021	48	70048-Z3	7	700811-06-C3	7
53344	42	53477	38	53696	39	54030105	43	544892	45	54944	47	550022	48	70049	7	700811-06-Z3	7
53345	42	53477-4	38	53697	39	54030107	43	544893	45	54945	47	550023	48	70049-Z3, C3	7	700811-07	7
53346	42	53477-HD	38	53698	39	54030203	43	544894	45	54950	47	55007	41	700490	7	700811-07-C3	7
53347	42	53477-GP	38	53728	39	54030205	43	544895	45	54951	47	55008	41	700490-C3	7	700811-07-Z3	7
53348	42	53477-M	38	53729	39	54030207	43	544896	45	54953	47	55009	41	700490-Z3	7	700811-08	7
53376	42	53478	38	53730	39	54117	43	544906	45	54954	47	55010	41	700491	7	700811-08-C3	7
53377	42	53478-5	38	53736	39	54118	43	544907	45	54956	47	55011	41	700491-C3	7	700811-08-Z3	7
53378	42	53478-M	38	53737	39	54119	43	544911	45	54957	47	55012	41	700491-Z3	7	70084	7
53379	42	53479	38	53738	39	54123	43	544912	45	54959	47	55015	41	70058-02	7	70084-C3	7
53380	42	53479-HD	38	53752	39	54124	43	544913	45	54960	47	55016	41	70058-02-C3	7	70084-Z3	7
53381	42	53479-GP	38	53753	39	54125	43	544914	45	54962	47	55017	41	70058-03	7	70085	7
53384	42	53479-M	38	53754	39	54131	43	544915	45	54963	47	55020	41	70058-03-C3	7	70085-C3	7
53385	42	53480	38	53772	39	54132	43	544936	45	54965	47	55021	41	70058-03-Z3	7	70085-Z3	7
53386	42	53480-4	38	53773	39	54133	43	544939	45	54966	47	55022	41	70058-04	7	70086	7
53387	42	53480-HD	38	53774	39	54138	43	545006	45	54968	47	56006	41	70058-04-C3	7	70086-C3	7
53388	42	53480-GP	38	53788	39	54139	43	545016	45	54969	47	56007	41	70058-04-Z3	7	70086-Z3	7
53389	42	53480-M	38	53789	39	54140	43	545018	45	54971	47	56008	41	70059	7	70087	7
53390	42	53481	38	53790	39	54213	43	545019	45	54972	47	56011	41	70059-C3	7	70087-C3	7
53391	42	53481-5	38	53800	39	54215	43	545020	45	54977	47	56012	41	70059-Z3	7	70087-Z3	7
53392	42	53481-M	38	53801	39	54217	43	545047	45	54978	47	56013	41	70060	7	70088	7
53393	42	534940	41	53802	39	54219	43	545051	45	54980	47	56016	41	70060-C3	7	70088-C3	7
53394	42	534941	41	53808	39	54221	43	545056	45	54981	47	56017	41	70060-Z3	7	70088-Z3	7
53395	42	534942	41	53809	39	54223	43	545103	37	54983	47	56018	41	70061	7	70089	7
53437	38	534950	41	53810	39	54225	43	545105	37	54984	47	57041	44	70061-C3	7	70089-C3	7
53438	38	534951	41	53824	39	54227	43	545105-XL2	37	549861	48	57042	44	70061-Z3	7	70089-Z3	7
53439	38	534952	41	53825	39			545109	37	549862	48	57044	44	70062	7	70090	7
53440	38	534960	41	53826	39	54265		545109-XL2	37	549863	48	57050	44	70062-C3	7	70090-C3	7
53441	38	534961	41	53832	39	to	20	545110	37	549865	48	57052	44	70062-Z3	7	70090-Z3	7
53441-4	38	534962	41	53833	39	54321		545110-XL2	37	549871	48	57053	44	70072	7	70120	7
53442	38	535015	39	53834	39			545111	37	549872	48	57060	44	70072-C3	7	70120-C3	7
53442-5	38	535025	39	53856	39			545112	37	549873	48	57062	44	70072-Z3	7	70120-Z3	7
53443	38	535035	39	53857	39	54285		545112-XL2	37	549875	48	57063	44	70073	7	70121	7
53443-HD	38	53512	39	53858	39	to	44	545126	37	549901	48	68010	10	70073-C3	7	70121-C3	7
53443-GP	38	53513	39	53902-1	21	54321		545126-XL2	37	549902	48	68026	10	70073-Z3	7	70121-Z3	7
53443-M	38	53514	39	53902-F	21			545127	37	549903	48	68027	10	70074	7	70122	7
53444	38	53524	39	53903-F	21			545127-XL2	37	549905	48	69920	10	70074-C3	7	70122-C3	7
53444-4	38	53525	39	53903-2	21	54325		545128	37	549911	48	69921	10	70074-Z3	7	70122-Z3	7
53444-HD	38	53526	39	53904SH	40	to	43	545129	37	549912	48	69923	10	70075	7	70123	7
53444-GP	38	53532	39	53904Z3	40	54343		545129-XL2	37	549913	48	69925	10	70075-C3	7	70123-C3	7
				53904Z3-CP	40			545145	37	549915	48						
								545147	37								

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70124-C3	7	70159-06-C3	7	70167-Z3	7	70208-Z3	7	70267-08-Z3	7	70300	8	70334	8	70384-C3	8	70524-C3	8
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70125-07	7	70159-07	7	70168-C3	7	70246-C3	7	70268-02-C3	7	70300-CJ3	6	70334-Z3	8	70384-J3	6	70524-Z3	8
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70125-08	7	70159-08	7	70186-06-J3-SE 6	6	70247-C3	7	70268-03-C3	7	70302-CJ3	6	70335-Z3	8	70386-J3	6	70525-PC	6
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70125-08-Z3	7	70159-08-Z3	7	70186-10-J3-SE 6	6	70248	7	70268-04	7	70303-11-CJ3	6	70336-C3	8	703861-J3	6	70526	8
70126	7	701602	7	70186-11-J3-SE 6	6	70248-C3	7	70268-04-C3	7	70303-11-J3	6	70336-Z3	8	70388-J3	6	70526-C3	8
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70127	7	701603	7	70186-17-J3-SE 6	6	70249-C3	7	70268-05-C3	7	70303-17-J3	6	70342-Z3	8	70426	8	70527	8
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70586-C3	8	70668-Z3	8	70765-C3	9	70827	9	70993-C3	9	71088-C3	9	72235	10	73037	31	73466	31
70586-Z3	8	70690	9	70765-PC	6	70827-C3	9	70993-PC	6	71088-Z3	9	72236	10	73038	31	73467	31
70587	8	70690-C3	9	70765-Z3	9	70827-Z3	9	70993-Z3	9	71089	9	72237	10	73039	31	73469	31
70587-C3	8	70690-Z3	9	70766	9	70828	9	70994	9	71089-C3	9	72238	10	73040	31	73471	31
70587-Z3	8	70691	9	70766-C3	9	70828-C3	9	70994-C3	9	71089-Z3	9	72239	10	73041	31	73479	31
70588	8	70691-C3	9	70766-PC	6	70828-Z3	9	70994-PC	6	71090	9	72281	10	73043	31	73480	31
70588-C3	8	70691-Z3	9	70766-Z3	9	70829	9	70994-Z3	9	71090-C3	9	72282	10	73049	31	73481	31
70588-Z3	8	70692	9	70767	9	70829-C3	9	70995	9	71090-Z3	9	72283	10	73050	31	73482	31
70589	8	70692-C3	9	70767-C3	9	70829-Z3	9	70995-C3	9	71091	9	72284	10	73051	31	73483	31
70589-C3	8	70692-Z3	9	70767-PC	6	70830	9	70995-PC	6	71091-C3	9	72285	10	73052	31	73484	31
70589-Z3	8	70693	9	70767-Z3	9	70830-C3	9	70995-Z3	9	71091-Z3	9	72286	10	73053	31	73485	31

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ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.		
73487	31	74177	31	80015	33	80490	34	80945	34	81410	35	81840	35	82295	35	82740	35
73489	31	74180	31	80025	33	80495	34	80955	34	81420	35	81845	35	82305	35	82745	35
73524	31	74181	31	80030	33	80505	34	80960	34	81425	35	81855	35	82310	35	82755	35
73525	31	75701	29	80040	33	80510	34	80970	34	81435	35	81860	35	82320	35	82760	35
73526	31	75702	29	80045	33	80520	34	80975	34	81440	35	81870	35	82325	35	82770	35
73527	31	75703	29	80055	33	80525	34	80985	34	81450	35	81875	35	82335	35	82775	35
73528	31	75711	29	80060	33	80531	47	80990	34	81455	35	81885	35	82340	35	82785	35
73529	31	75712	29	80070	33	80532	47	81000	34	81465	35	81890	35	82350	35	82790	35
73530	31	75713	29	80075	33	80535	34	81005	34	81470	35	81900	35	82355	35	82800	35
73532	31	75721	29	80085	33	80540	34	81015	34	81480	35	81901	47	82356	47	82805	35
73534	31	75722	29	80090	33	80550	34	81020	34	81485	35	81902	47	82357	47	82815	35
74104	30	75723	29	80100	33	80555	34	81030	34	81495	35	81905	35	82365	35	82820	35
74105	30	75731	29	80105	33	80565	34	81035	34	81500	35	81915	35	82370	35	82830	35
74106	30	75732	29	80115	33	80570	34	81045	34	81510	35	81920	35	82380	35	82835	35
74107	30	75733	29	80120	33	80580	34	81050	34	81515	35	81930	35	82385	35	82845	35
74108	30	75741	29	80130	33	80585	34	81060	34	81521	47	81935	35	82395	35	82850	35
74109	30	75742	29	80135	33	80595	34	81065	34	81522	47	81945	35	82400	35	82860	35
74110	30	75743	29	80145	33	80600	34	81075	34	81525	35	81950	35	82410	35	82865	35
74111	30	76321	30	80150	33	80610	34	81080	34	81530	35	81960	35	82415	35	82875	35
74112	30	76322	30	80160	33	80615	34	81090	34	81540	35	81965	35	82425	35	82880	35
74113	30	76324	30	80165	33	80625	34	81095	34	81545	35	81975	35	82430	35	82890	35
74114	30	76333	30	80175	33	80630	34	81101	47	81555	35	81980	35	82440	35	82895	35
74115	30	76334	30	80180	33	80640	34	81102	47	81560	35	81990	35	82445	35	82905	35
74116	30	76336	30	80190	33	80645	34	81105	34	81570	35	81995	35	82455	35	82910	35
74117	30	76621	30	80195	33	80655	34	81110	34	81575	35	82005	35	82460	35	82920	35
74118	30	76622	30	80205	33	80660	34	81120	34	81585	35	82010	35	82470	35	82923	35
74119	30	76624	30	80210	33	80670	34	81125	34	81590	35	82020	35	82475	35	82933	35
74121	30	76762	30	80220	33	80675	34	81135	34	81600	35	82025	35	82485	35	82925	35
74122	30	76764	30	80225	33	80685	34	81140	34	81605	35	82035	35	82490	35	82935	35
74123	30	76765	30	80235	33	80690	34	81150	34	81615	35	82040	35	82500	35	82940	35
74124	30	76766	30	80240	33	80700	34	81155	34	81620	35	82050	35	82505	35	87721	32
74125	30	76768	30	80250	33	80705	34	81165	34	81630	35	82055	35	82515	35	87722	32
74126	30	76777	30	80255	33	80715	34	81170	34	81635	35	82065	35	82520	35	87725	32
74128	30	76778	30	80265	33	80720	34	81180	34	81645	35	82070	35	82530	35	87725-C3	32
74128-N	30	76780	30	80270	33	80730	34	81185	34	81650	35	82080	35	82535	35	87726	32
74129	30	77124	30	80280	33	80735	34	81195	34	81660	35	82085	35	82545	35	87726-C3	32
74129-N	30	77125	30	80285	33	80745	34	81200	34	81665	35	82095	35	82550	35	87738	32
74130	30	77126	30	80295	33	80750	34	81210	34	81675	35	82100	35	82560	35	87742	32
74131	30	77128	30	80300	33	80760	34	81215	34	81680	35	82110	35	82565	35	87742-C3	32
74131-N	30	77134	30	80310	33	80765	34	81225	34	81690	35	82115	35	82575	35	87743	32
74133	30	77136	30	80315	33	80775	34	81230	34	81695	35	82125	35	82580	35	87743-C3	32
74133-N	30	77137	30	80325	33	80780	34	81240	34	81705	35	82130	35	82590	35	87770	32
74134	30	77138	30	80330	33	80790	34	81245	34	81710	35	82140	35	82595	35	87770-27	32
74135	30	77140	30	80340	33	80795	34	81255	34	81716	47	82145	35	82605	35	87770-C3	32
74135-N	30	77410	30	80345	33	80805	34	81260	34	81717	47	82155	35	82610	35	87770-C3-27	32
74135-1	30	77412	30	80355	33	80810	34	81270	35	81720	35	82160	35	82620	35	87781	32
74135-1-N	30	77413	30	80360	33	80820	34	81275	35	81725	35	82170	35	82625	35	87781-27	32
74135-2	30	77414	30	80370	33	80825	34	81285	35	81735	35	82175	35	82635	35	87781-C3	32
74135-2-N	30	77416	30	80375	33	80835	34	81290	35	81740	35	82185	35	82640	35	87781-C3-27	32
74136	30	77422	30	80385	33	80840	34	81300	35	81746	47	82190	35	82646	47		
74136-N	30	77424	30	80390	33	80850	34	81315	35	81747	47	82200	35	82647	47	88103	
74137	30	77425	30	80400	33	80855	34	81320	35	81750	35	82205	35	82650	35	to	33
74137-N	30	77426	30	80405	33	80865	34	81330	35	81755	35	82215	35	82655	35	88138	
74138	30	77428	30	80415	34	80870	34	81335	35	81765	35	82220	35	82665	35		
74138-N	30	77434	30	80420	34	80880	34	81345	35	81770	35	82230	35	82670	35	88150	
74139	30	77436	30	80430	34	80885	34	81350	35	81780	35	82235	35	82680	35	to	48
74139-N	30	77437	30	80435	34	80895	34	81360	35	81785	35	82245	35	82685	35	88262	
74140	30	77438	30	80445	34	80900	34	81365	35	81795	35	82250	35	82695	35		
74172	31	77440	30	80450	34	80910	34	81375	35	81800	35	82260	35	82700	35		
74173	31			80460	34	80915	34	81380	35	81810	35	82265	35	82710	35		
74174	31	78302 - 78610	23	80465	34	80925	34	81390	35	81815	35	82275	35	82715	35		
74175	31			80475	34	80930	34	81395	35	81825	35	82280	35	82725	35		
74176	31	80010	33	80480	34	80940	34	81405	35	81830	35	82290	35	82730	35		

Preferred Abrasives, Inc.

Coated, bonded, cotton fiber and non-woven abrasives....

What do these terms mean?

Coated Abrasives

The term "Coated Abrasive" means that the grit is adhered (*coated*) on top of some form of backing, typically with resin. The backing material can be paper, cloth or fiber.



Bonded Abrasives

The term "Bonded Abrasive" means that the grain is bonded together (usually with resin) and they are pressed into a finished shape and are then baked.



Non-Woven Abrasives

The term "Non-Woven Abrasive" refers to nylon fibers that have abrasive grains attached with flexible resin, leaving open areas through the non-woven structure, creating a 3-dimensional web with grains evenly dispersed throughout.



Cotton Fiber Products

The term "Cotton Fiber" refers to multiple layers of cotton fabric that are impregnated with abrasive grain. They are then laminated into slabs of varying thickness and hardness. The slabs are then cut into finished discs, wheels or mtd. pts. These abrasive products are cool cutting and non-loading!



937.332.8855

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Terms / Conditions

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

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

Forms of Payment: If your account is not set up on "open account", we accept: Visa, MasterCard, Discover, American Express and PayPal.

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

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

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

How To Contact Us:

Open Monday-Friday from 8:00 AM to 5:00 PM Eastern

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