



PREFERRED ABRASIVES, INC.

PROFESSIONAL GRADE SANDPAPER



PREFERRED
ABRASIVES, INC.
"Professional Grade Abrasives"
.045 LONG LIFE
T1 #87781
T27 #87781-27
MAX RPM 10500
A60-TBF
For Ferrous & Stainless Steels

PREFERRED
ABRASIVES, INC.
500.729.5702
Made in U.S.A.
Max. 8,600 RPM

Wear Eye Protection
MAX RPM 8,600
Grit 120
Made in U.S.A.

Mean Green CZ
#88103
#88106
Maximum Safe Speed 13,500 RPM
Use at Right Angle to Work Surface

PREFERRED
ABRASIVES, INC.
500.729.5702
Made in U.S.A.

85F
XL
LONG LIFE
PART # 545110
Max RPM 6000

PREFERRED
ABRASIVES, INC.
500.729.5702
PART # 545112
Max RPM 13000

PREFERRED
ABRASIVES, INC.
500.729.5702
PART # 545112-XL
MAX RPM 13000
WEAR EYE PROTECTION

60
MAX RPM 8600
WEAR EYE PROTECTION

80
MAX RPM 8600
WEAR EYE PROTECTION

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ABRASIVES, INC.
500.729.5702
PART # 545112
MAX RPM 13000
WEAR EYE PROTECTION

"COATED & BONDED" ABRASIVES

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Terms / Conditions: See inside back cover







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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		36-600	361F	R247,R249	RB376TY	KK711Y	CS410,412Y	PA631
	PA343, W25 OC Wet or Dry		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	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	Q130	-	-	-	
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	
B / C	AO Gold		40-600	214U, 236U	A290, PB273	Bulldog, Carat, Base Cut	KP911, MP10	PS33, PL36	Whiteline
E	AO Gold - E. wt.		36-80	246U	-		KP510,701	PS23	
	AO Resin Paper OP		50-400	240	H124		KP508E	PS22	
				241 361I	H222 H224		KP709		
F	AO F-wt. Anti Static OP B-317		40-220	261UZ	H248		KP520F	PS20	
				265UZ	H258			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) (Expanded for 2020)** 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" (Pref. Econ. Choice) 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” (Pref. Econ. Choice)** **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.
-

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*) is 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	Green							
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-SS

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
2 x 132	10	70378-PC	70379-PC	70380-PC	70381-PC	70382-PC	70383-PC	70384-PC
3 x 21	10	70522-PC	70523-PC	70524-PC	70525-PC	70526-PC	70527-PC	70528-PC
3 x 132	10	70642-PC	70643-PC	70644-PC	70645-PC	70646-PC	70647-PC	70648-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-SS = "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/Y +	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 12 Std. Pkg. 50	AO/X	70150	70151	70152	70153	70154	70155	70156
	ZA/Y +	70150-Z3	70151-Z3	70152-Z3	70153-Z3	70154-Z3	70155-Z3	70156-Z3
	CA/Y +	70150-C3	70151-C3	70152-C3	70153-C3	70154-C3	70155-C3	70156-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-SS	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 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
1-1/2 x 72 Std. Pkg. 10	AO/X	70258	70259	70260	70261	70262	70263	70264
	ZA/Y +	70258-Z3	70259-Z3	70260-Z3	70261-Z3	70262-Z3	70263-Z3	70264-Z3
	CA/Y +	70258-C3	70259-C3	70260-C3	70261-C3	70262-C3	70263-C3	70264-C3
1-1/2 x 132 Std. Pkg. 10	AO/X	702661-02	702661-03	702661-04	702661-05	702661-06	702661-07	702661-08
	ZA/Y +	702661-02-Z3	702661-03-Z3	702661-04-Z3	702661-05-Z3	702661-06-Z3	702661-07-Z3	702661-08-Z3
	CA/Y +	702661-02-C3	702661-03-C3	702661-04-C3	702661-05-C3	702661-06-C3	702661-07-C3	702661-08-C3
2 x 18-15/16 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



Narrow Cloth Belts

AO-SS = "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 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
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-SS	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	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
2 x 132 Std. Pkg. 10	AO-SS	70378-PC	70379-PC	70380-PC	70381-PC	70382-PC	70383-PC	70384-PC
	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-SS	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-SS	70642-PC	70643-PC	70644-PC	70645-PC	70646-PC	70647-PC	70648-PC
	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

Narrow Cloth Belts

AO-SS = "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-SS	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
	CA/Y +	70738-C3	70739-C3	70740-C3	70741-C3	70742-C3	70743-C3	70744-C3
4 x 36 Std. Pkg. 10	AO-SS	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
	CA/Y +	70762-C3	70763-C3	70764-C3	70765-C3	70766-C3	70767-C3	70768-C3
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 90 Std. Pkg. 10	AO/X	70802	70803	70804	70805	70806	70807	70808
	ZA/Y +	70802-Z3	70803-Z3	70804-Z3	70805-Z3	70806-Z3	70807-Z3	70808-Z3
	CA/Y +	70802-C3	70803-C3	70804-C3	70805-C3	70806-C3	70807-C3	70808-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-SS	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
	CA/Y +	70990-C3	70991-C3	70992-C3	70993-C3	70994-C3	70995-C3	70996-C3
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
6 x 300 Std. Pkg. 10	AO/X	710730-02	710730-03	710730-04	710730-05	710730-06	710730-07	710730-08
	ZA/Y +	710730-02-Z3	710730-03-Z3	710730-04-Z3	710730-05-Z3	710730-06-Z3	710730-07-Z3	710730-08-Z3
	CA/Y +	710730-02-C3	710730-03-C3	710730-04-C3	710730-05-C3	710730-06-C3	710730-07-C3	710730-08-C3
8 x 60 Std. Pkg. 10	AO/X	71080-02	71080-03	71080-04	71080-05	71080-06	71080-07	71080-08
	ZA/Y +	71080-02-Z3	71080-03-Z3	71080-04-Z3	71080-05-Z3	71080-06-Z3	71080-07-Z3	71080-08-Z3
	CA/Y +	71080-02-C3	71080-03-C3	71080-04-C3	71080-05-C3	71080-06-C3	71080-07-C3	71080-08-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

Wide Cloth Belts



Part Number:

AO/X Closed Coat (For Metal)shown below
AO/X Open Coat (For Wood)add - 4 to part number
AO/F Paper (For Metal / Wood)add - F to part number

Std. Pkg. Size	3/Box				5/Box						
	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
25 x 60	72152	72153	72154	72155	72156	72157	72158	72159	72160	72161	72162
36 x 75	72229	72230	72231	72232	72233	72234	72235	72236	72237	72238	72239
37 x 60	72281	72282	72283	72284	72285	72286	72287	72288	72289	72290	72291
37 x 75	72304	72305	72306	72307	72308	72309	72310	72311	72312	72313	72314
50 x 103	72392	72393	72394	72395	72396	72397	72398	72399	72400	72401	72402
52 x 75	72437	72438	72439	72440	72441	72442	72443-08	72443	72444	72445	72446
52 x 103	72448	72449	72450	72451	72452	72453	72454	72455	72456	72457	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	69920
	80	69921
	120	69923
	180	69925
9" x 13-3/4" (4" x 9" Drum)	60	69932
	80	69933
	120	69935
	180	69937

Size	Grit	Item No.
9" x 20" (6" x 9" Drum)	60	69944
	80	69945
	120	69947
	180	69949
9" x 26-5/16" (8" x 9" Drum)	60	69956
	80	69957
	120	69959
	180	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: NEW for 2020!

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:

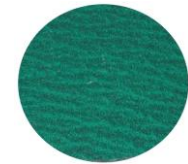
3-M: Cubitron II
Superior: Ceramic Advantage
Norton: Blaze R980P 2 Ply



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



3-M: 577F
Norton: R884P
Standard: Zirconia Pro
Merit: Zirc Plus



		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
	100	32555	32755
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
	100	32567	32767
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":

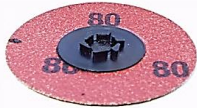
AO cloth is laminated to a blue cloth backing which improves durability & reduces edge wear. AO is a versatile grain and is a good starting specification when initial price is the primary purchasing consideration.



TYPE "P"

TYPE "S"

TYPE "R"



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
3" Std. Pkg. 50	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

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

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
3" Std. Pkg. 50	180	31470	31670
	240	31471	31671
	320	31472	31672

Compact Grain and Silicon Carbide discs are also available. 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

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"	Soft	12,000	50241SF	50254SF	50260SF
	Med	20,000	50241	50254-R	50260-R



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



Our most popular back up pad.

Spiral vents provide cooling action by pulling air between the disc and pad.

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

Low Profile

Std. Pkg. 1

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

(1 Center Nut Included with each pad)



Extra Rigid - "Glass Fiber Reinforced".

Works great on severe grinding applications. (Ideal for grits 24 & 36)

General Purpose

Std. Pkg. 1

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 Included with each pad)



Our economy priced pad. Smooth

face design works good on most general purpose applications.



Resin Fiber Discs



FIRESTORM II CERAMIC: **New for 2020!**

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 pressure). Zirc is a self-sharpening grain and it maintains good cutting action as it wears.



AO Premium:

This premium AO discs (Made-in-Germany) is 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.

Std. Pkg. 25		CERAMIC	
		FIRESTORM II	FIRESTORM
Dia. x AH	Grit	Item No.	Item No.
4-1/2" x 7/8 Max RPM 13,000	24	37610	37510
	36	37611	37511
	50	37612	37512
	60	37613	37513
	80	37614	37514
	120	37616	37516
5" x 7/8 Max Max. 11,900	24	37618	37518
	36	37619	37519
	50	37620	37520
	60	37621	37521
	80	37622	37522
	120	37624	37524
7" x 7/8 Max RPM 8,600	24	37626	37526
	36	37627	37527
	50	37628	37528
	60	37629	37529
	80	37630	37530
	120	37632	37532

ZIRC PREM.
Item No.
37202
37203
37204
37205
37206
37208
37208
37209
37210
37211
37212
37214
37214
37215
37216
37217
37218
37220

AO PREM.
Item No.
37110
37111
37112
37113
37114
37116
37118
37119
37120
37121
37122
37124
37126
37127
37128
37129
37130
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. Originally designed to fit short spindles on Black & Decker tools, but will fit all grinders with 5/8-11 shaft.

Flap Discs



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.

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



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

Hi-Density

(Fiberglass Backing Plate)

Significantly increases product life and provides a more cushioned effect.



		FAS TRIM® Trimable Nylon Backing Plate			
		Firestorm Ceramic		Premium Zirc	
10/Box		T-29	T-27	T-29	T-27
4-1/2" x 5/8-11	40	**	10914T-FF	**	10814T-FF
	60	**	10915T-FF	**	10815T-FF
	80	**	10916T-FF	**	10816T-FF
Max. RPM 13,300					

** Type 29 FasTrim and Hi-Density FasTrim available soon.

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

• New low profile design allows FasTrim to be used with safety guard in place!

"Nylon" vs. Plastic?? Our nylon FasTrim backing plate trims easier than those made from plastic!

Curved Edge Flap Discs



Curved Edge Flap Discs

10/Box		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

10/Box		Firestorm Ceramic - Type "R"				Undersized Holder
Dia.	Max RPM	40	60	80	120	
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.

Mini Flap Discs

Mini Flap Discs - Type 27

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



		Type "S"				Steel Mandrel
		Zirc Premium - Type "S"				
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:

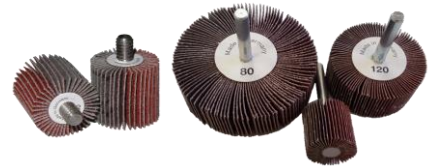
Type S: 2" discs must be used with steel mandrel #31560 shown.

Type S: 3" discs can be used with #31560 or with conventional quick-lock holders


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

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. Many of our customers consider them to be the finest flap wheels available.



PC: (Preferred's Economy Choice) - These wheels are made with a stiffer backing to provide an aggressive cut.

Std. Pkg. 10			Premium "German-Made" 1/4" Shank						
Dia. x Width	Max RPM		40	60	80	120	180	240	320
3/4" x 3/4"	35,000		11139-1	11139-3	11139-4	11139-5	11139-6	11139-7	11139-8
1" x 5/8"	30,000		-	11156	11157	11159	11161	11163	11165
1" x 1"	30,000		11167	11169	11170	11172	11174	11176	11178
1-1/2" x 1/2"	30,000		11206	11208	11209	11211	11213	11215	11217
1-1/2" x 1"	30,000		11232	11234	11235	11237	11239	11241	11243
2" x 1/2"	25,000		11258	11260	11261	11263	11265	11267	11269
2" x 3/4"	25,000		11271	11273	11274	11276	11278	11280	11282
2" x 1"	25,000		11284	11286	11287	11289	11291	11293	11295
2" x 1-1/2"	25,000		11297	11299	11300	11302	11304	11306	11308
2-1/2" x 1"	23,000		11336	11338	11339	11341	11343	11345	11347
3" x 1/4"	23,000		-	11361-05	11361-06	11361-07	11361-08	-	-
3" x 1/2"	23,000		11362	11364	11365	11367	11369	11371	11373
3" x 3/4"	23,000		11375	11377	11378	11380	11382	11384	11386
3" x 1"	23,000		11388	11390	11391	11393	11395	11397	11399
3" x 2"	12,000		11414	11416	11417	11419	11421	11423	11425
			Premium "German-Made" 1/4-20 Spin-On						
1" x 1"	30,000		12148	12150	12151	12153	12155	12157	12159
1-1/2" x 1"	30,000		12187	12189	12190	12192	12194	12196	12198
2" x 1"	25,000		12239	12241	12242	12244	12246	12248	12250
3" x 1"	23,000		12343	12345	12346	12348	12350	12352	-
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" Economy 1/4" Shank						
Dia. x Width	Max RPM		40	60	80	120	180	240	320
1" x 1"	30,000		13167	13169	13170	13172	13174	13176	13178
1-1/2" x 1"	30,000		13232	13234	13235	13237	13239	13241	13243
2" x 1"	25,000		13284	13286	13287	13289	13291	13293	13295
3" x 1"	23,000		13388	13390	13391	13393	13395	13397	-

Mini Flap Wheels

1/8" Shank



Std. Pkg. 10			Premium "German-Made"						
Dia. x Width	RPM		60	80	120	180	240	320	
3/8" x 3/8"	40,000		11082-3	11082-4	11082-5	11082-6	11082-7	11082-8	
5/8" x 5/8"	40,000		11090-3	11090-4	11090-5	11090-6	11090-7	11090-8	
5/8" x 3/4"	40,000		11091-3	11091-4	11091-5	11091-6	11091-7	11091-8	
3/4" x 3/16"	35,000		11104-3	11104-4	11104-5	11104-6	11104-7	11104-8	
3/4" x 3/8"	35,000		11117-3	11117-4	11117-5	11117-6	11117-7	11117-8	
3/4" x 1/2"	35,000		11127-3	11127-4	11127-5	11127-6	11127-7	11127-8	
3/4" x 5/8"	35,000		11128-3	11128-4	11128-5	11128-6	11128-7	11128-8	
3/4" x 3/4"	35,000		11129-3	11129-4	11129-5	11129-6	11129-7	11129-8	
1-3/16" x 1/8"	30,000		11179-3	11179-4	11179-5	11179-6	11179-7	11179-8	
1-3/16" x 3/16"	30,000		11182-3	11182-4	11182-5	11182-6	11182-7	11182-8	
1-3/16" x 3/8"	30,000		11195-3	11195-4	11195-5	11195-6	11195-7	11195-8	

Unmounted Flap Wheels

Premium Aluminum Oxide, Flexible Egyptian Cotton

Dia. x Width x AH	Grit	Item No.
6 x 1 x 1 Std. Pkg. 5 Max RPM 5,700	40	10241
	50	10242
	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

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



Dia. x Width x AH	Grit	Item No.
6 x 2 x 1 Std. Pkg. 2 Max RPM 5,700	40	10281
	50	10282
	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

Other sizes and grits are available.

Arbor Reducer Bushings

Std. Pkg. 1 Pair

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



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

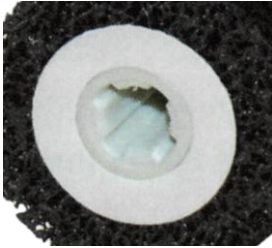
Bore Polisher Mandrels

Std. Pkg. 1

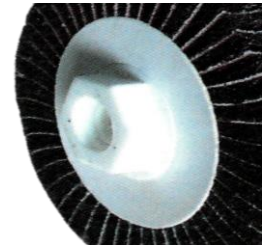
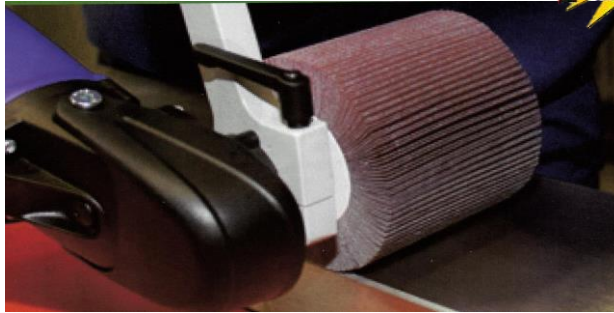
Mandrel #	Thrd.	Item No.
BPM-3 Series	5/16-18	12950
BPM-4 Series	1/2-20	12951
BPM-8 Series	1/4-20	12952
4" Extension	1/4-20	12953
6" Extension	1/4-20	12954
8" Extension	1/4-20	12955

Flap Drums

NEW!



Quad Keyway



5/8-11 Spin-On

Abrasive Flap Drums

Std. Pkg. 1

Dia. x Width x AH	Grit	Part #
4 x 4 x 3/4"	40	54265
	60	54266
Quad Keyway	80	54267
5000 Max RPM	120	54268



Dia. x Width x AH	Grit	Part #
4-1/4 x 4 x 5/8-11	40	54275
	60	54276
Spin-On Hub	80	54277
5000 Max RPM	120	54278

2" wide wheels are also available.

Interleaf Flap Drums

Std. Pkg. 1

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



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

2" wide wheels are also available.

Non-Woven Finishing Flap Drums

Std. Pkg. 1

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



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

2" wide wheels are also available.

** Interleaf & Non-Woven: OPTIMUM RPM is 2000

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

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 stearated 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-290
Klingspor: PS33
Mirka: Bulldog Gold, Basecut

** Finer grits available

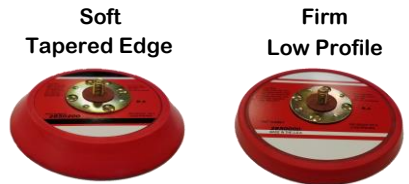


Stearated Blue Film: Precision graded AO grain, resin bonded to a flexible and durable film backing. Pull Tabs for easy removal of backing paper. Provides fast cut with uniform finish & outlasts paper discs. Non-loading, for use on metal, plastic, fiberglass, wood or solid-surface composites.

Stearated Blue 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
6" x 5/16-24 Thrd.	0	Firm	50217-5
		8	Firm
	6	Soft	50216
6	Firm	50218	
	Soft	50216-6	
6	Firm	50218-6	

Hook & Loop 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.

100/Box

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 21.

Stearated Blue 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.



100/Box

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



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
Norton: Q130
Deer: SA331
Sun: Q711T, L312T

H & L holders (5" & 6") see page 21.

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



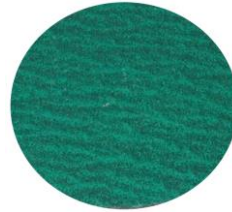
H & L holders (5" & 6") see page 21.

Zirc & Ceramic Cloth PSA Discs

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

Dia.	Grit	Zirc Plus	Firestorm
		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	
	50	30572-Z3	
24"	50	30572-Z3	
	60	30573-Z3	
Std. Pkg. 5			

Other sizes 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
	120-C	50	78608
Hook & Loop Gold Sheets	180-C	50	78610
	36-E	25	78502
	40-E	25	78503
	80-C	50	78506
	100-C	50	78507
PSA Gold Sheets	120-C	50	78508
	180-C	50	78510
	36-E	25	78302
	40-E	25	78303
	80-C	50	78306
2-3/4" x 17.5"	100-C	50	78307
	120-C	50	78308
	180-C	50	78310
	36-E	25	78302
	40-E	25	78303

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
		8	53905-8
12,000 Max RPM	Firm	0	53905F
		5	53905F-5
		8	53905F-8
6" x 5/16-24	Soft	0	53906
		6	53906-6
		8	53906-8
12,000 Max RPM	Firm	0	53906F
		6	53906F-6
		8	53906F-8



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

Dia.	Flex	# Holes	Item No.
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
	100	30395-8
2" Std. Pkg. 100	120	30396-8
	180	30398-8
	50	30404-8
	60	30405-8
	80	30406-8
3" Std. Pkg. 100	100	30407-8
	120	30408-8
	180	30410-8
	50	30416-8
3" Std. Pkg. 100	60	30417-8
	80	30418-8
	100	30419-8
	120	30420-8
3" Std. Pkg. 100	180	30422-8

Other sizes and grits available.

DA pads, see pg. 19

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
	120	30444-8
Available with Pull Tabs, on request.	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
	240	30459-8
Available with Pull Tabs, on request.	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
9" Std. Pkg. 25	60	30489-8
	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
15" Std. Pkg. 25	60	30513-8
	80	30514-8
	120	30516-8
	36	30522-8
16" Std. Pkg. 25	40	30523-8
	50	30524-8
	60	30525-8
	80	30526-8
20" Std. Pkg. 10	36	30534-8
	40	30535-8
	50	30536-8
	60	30537-8
24" Std. Pkg. 10	80	30538-8
	36	30558-8
	40	30559-8
	50	30560-8
30" Std. Pkg. 5	60	30561-8
	80	30562-8
	36	30570-8
30" Std. Pkg. 5	40	30571-8
	50	30572-8
	60	30573-8
	36	30582-8
30" Std. Pkg. 5	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

5" & 6" PSA pads, see pg. 19



Straight Cartridge Rolls

Zirc is 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 1-1/2 x 1/4 Max RPM 15,000 Use A-21 Mandrel	36	21796	
	60	21799	
	80	21800	
	1 x 2 x 1/4 Max RPM 15,000 Use A-22 Mandrel	36	21916
		60	21919
		80	21920

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
5/8 x 1 x 3/16 Max RPM 18,000 Use A-15 Mandrel	240	21349
	320	21350
	60	21355
5/8 x 1-1/2 x 3/16 Max RPM 18,000 Use A-16 Mandrel	80	21356
	120	21358
	60	21439
3/4 x 1 x 3/16 Max RPM 18,000 Use A-15 Mandrel	80	21440
	120	21442
	60	21451
3/4 x 1 x 1/8 Max RPM 18,000 Use A-8 Mandrel	80	21452
	120	21454
	60	21523
3/4 x 1-1/2 x 1/4 Max RPM 18,000 Use A-21 Mandrel	80	21524
	120	21526
	60	21523-AH
3/4 x 2 x 1/4 Max RPM 18,000 Use A-22 Mandrel	80	21524-AH
	120	21526-AH
	60	21535
1 x 1-1/2 x 1/4 Max RPM 15,000 Use A-21 Mandrel	80	21536
	120	21538
	60	21535-AH
1 x 2 x 1/4 Max RPM 15,000 Use A-22 Mandrel	80	21536-AH
	120	21538-AH
	60	21547-AH
1 x 1-1/2 x 1/4 Max RPM 15,000 Use A-21 Mandrel	80	21548-AH
	120	21550-AH
	36	21796
1 x 2 x 1/4 Max RPM 15,000 Use A-22 Mandrel	60	21799
	80	21800
	36	21916
1 x 2 x 1/4 Max RPM 15,000 Use A-22 Mandrel	60	21919
	80	21920

Other sizes, arbor holes & grits available. Mandrels - page 24

Full Taper Cartridge Rolls

AO (R228) or **Firestorm Ceramic**
Zirc is 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
120-CER	23108-C	
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
120-CER	23288-C	
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	
1/2 x 2 x 1/8 Max RPM 26,000 Use A-10 Mandrel	60	23465
	80	23466
	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
3/4 x 1-1/2 x 3/16 Max RPM 18,000 Use A-16 Mandrel	60	23405
	80	23406
	120	23408
1 x 1-1/2 x 3/16 Max RPM 18,000 Use A-16 Mandrel	60	23621
	80	23622
	120	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 & Firestorm Ceramic (-C), are shown.

50/Pack, Mandrels sold separately

"C" Shape		
Shape x Dia. x Length	Grit	Part #
CAP-C 3/16 x 7/16 50/Pkg.	80-AO	28301
	150-AO	28304
	280-AO	28308
	80-CER	28302-C
Expanding Rubber Drum		50124
CAP-C 9/32 x 1/2 50/Pkg.	60-AO	28310
	150-AO	28314
	280-AO	28318
	80-CER	28311-C
Expanding Rubber Drum		50125
CAP-C 3/8 x 5/8 50/Pkg.	60-AO	28320
	150-AO	28324
	280-AO	28328
	80-CER	28321-C
Expanding Rubber Drum		50126
CAP-C 1/2 x 11/16 50/Pkg.	60-AO	28330
	150-AO	28334
	280-AO	28338
	80-CER	28331-C
Expanding Rubber Drum		50127
CAP-C 5/8 x 1 50/Pkg.	60-AO	28340
	150-AO	28344
	280-AO	28348
	80-CER	28341-C
Expanding Rubber Drum		50128

"G" Shape		
Shape x Dia. x Length	Grit	Part #
CAP-G 3/16 x 7/16 50/Pkg.	80-AO	28391
	150-AO	28394
	280-AO	28398
	Expanding Rubber Drum	
CAP-G 9/32 x 1/2 50/Pkg.	60-AO	28400
	150-AO	28404
	280-AO	28408
Expanding Rubber Drum		50134
CAP-G 3/8 x 5/8 50/Pkg.	60-AO	28410
	150-AO	28414
	280-AO	28418
Expanding Rubber Drum		50135
CAP-G 1/2 x 11/16 50/Pkg.	60-AO	28420
	150-AO	28424
	280-AO	28428
Expanding Rubber Drum		50136
CAP-G 5/8 x 1 50/Pkg.	60-AO	28430
	150-AO	28434
	280-AO	28438
Expanding Rubber Drum		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 50/Pkg.	80-AO	28351
	150-AO	28354
	280-AO	28358
	80-CER	28351-C
Expanding Rubber Drum		50129
CAP-L 7/16 x 1 50/Pkg.	60-AO	28360
	150-AO	28364
	280-AO	28368
	80-CER	28361-C
Expanding Rubber Drum		50130
CAP-L 5/8 x 1-1/4 50/Pkg.	60-AO	28370
	150-AO	28374
	280-AO	28378
	80-CER	28371-C
Expanding Rubber Drum		50131
CAP-L 27/32 x 1-9/16 50/Pkg.	60-AO	28380
	150-AO	28384
	280-AO	28388
	80-CER	28381-C
Expanding Rubber Drum		50132

937.332.8855
www.preferredabrasives.com

Part numbers in
RED are stock

Cross Pads

Premium 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 28

Square Pads

Premium 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 28

Spin-On Overlap Discs

Premium 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

Slotted Rubber Expanding Drum

Dia. x Width	Grit	Item No.	Max RPM	Item No.
1-1/4" x 3/4" Std. Pkg. 10	40	75701	26,000	50557
	60	75702		
	80	75703		
1-3/4" x 3/4" Std. Pkg. 10	40	75711	19,000	50558
	60	75712		
	80	75713		
1-3/4" x 1-3/16" Std. Pkg. 10	40	75721	19,000	50559
	60	75722		
	80	75723		
2-1/2" x 1-3/16" Std. Pkg. 10	40	75731	12,700	50560
	60	75732		
	80	75733		
3" x 1-3/16" Std. Pkg. 10	40	75741	9,500	50561
	60	75742		
	80	75743		



No-Lap Spiral Bands

Premium 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

D x L	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

D x L	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

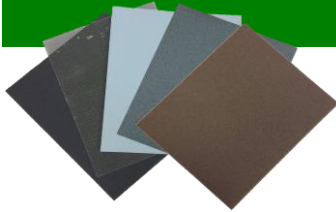
Rubber Drums

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

Norton "Black Ice" W/D Sheets

Grits: 240-800 = A/O, 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.	Mfg. #	Item No.
220-B	50	66261139389	74128-N
240-B	50	66261139388	74129-N
320-B	50	66261139386	74131-N
400-B	50	66261139385	74133-N
600-B	50	66261139383	74135-N
800-B	50	66261139382	74135-1-N
1000-B	50	66261139381	74135-2-N
1200-B	50	66261139380	74136-N
1500-B	50	66261139379	74137-N
2000-B	50	66261139378	74138-N
2500-B	50	66261139377	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"	60 / 60	39147
	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:

Extremely Flexible
Water & Oil Resistant Backing
Our Most Popular Material.



Economy Shop Rolls:

Economical (not as flexible as our other rolls)



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.
DAF Shop Rolls: Available on request. Call for current price.

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



Firestorm HP: New for 2019!

High Performance Grain & Bond provides outstanding productivity and long life on most metals. Also works great on sheet metal and rusted bolts.

Aluminum Oxide: Improved for 2019!

Versatile AO Grain. Good starting point for most metals.

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 50/Box
3 x .035 x 3/8	A60T	87725	
3 x 1/16 x 1/4	A46T	87722	19,000 50/Box
3 x 1/16 x 3/8	A46T	87726	
4 x .035 x 1/4	A60T	87738	19,000 50/Box
4 x .035 x 3/8	A60T	87742	
4 x 1/16 x 3/8	A46T	87743	

.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



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

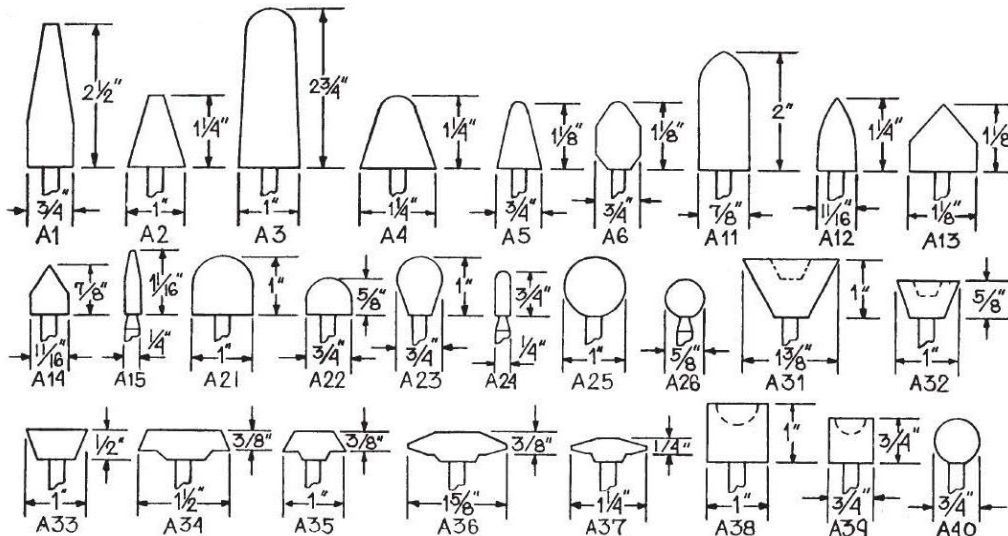
NEW, Thicker! Mean Green "MAX"			
Size	Grade	Std. Pkg.	Item No.
4-1/2 x 1/4 x 7/8	36-CZ	5	88123-5
Max RPM 13,300		20	88123
4-1/2 x 1/4 x 5/8-11	36-CZ	5	88126-5
Max RPM 13,300		10	88126
7 x 1/4 x 7/8	36-CZ	5	88135-5
Max RPM 8,500		20	88135
7 x 1/4 x 5/8-11	36-CZ	5	88138-5
Max RPM 8,500		10	88138

"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, the Blue 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

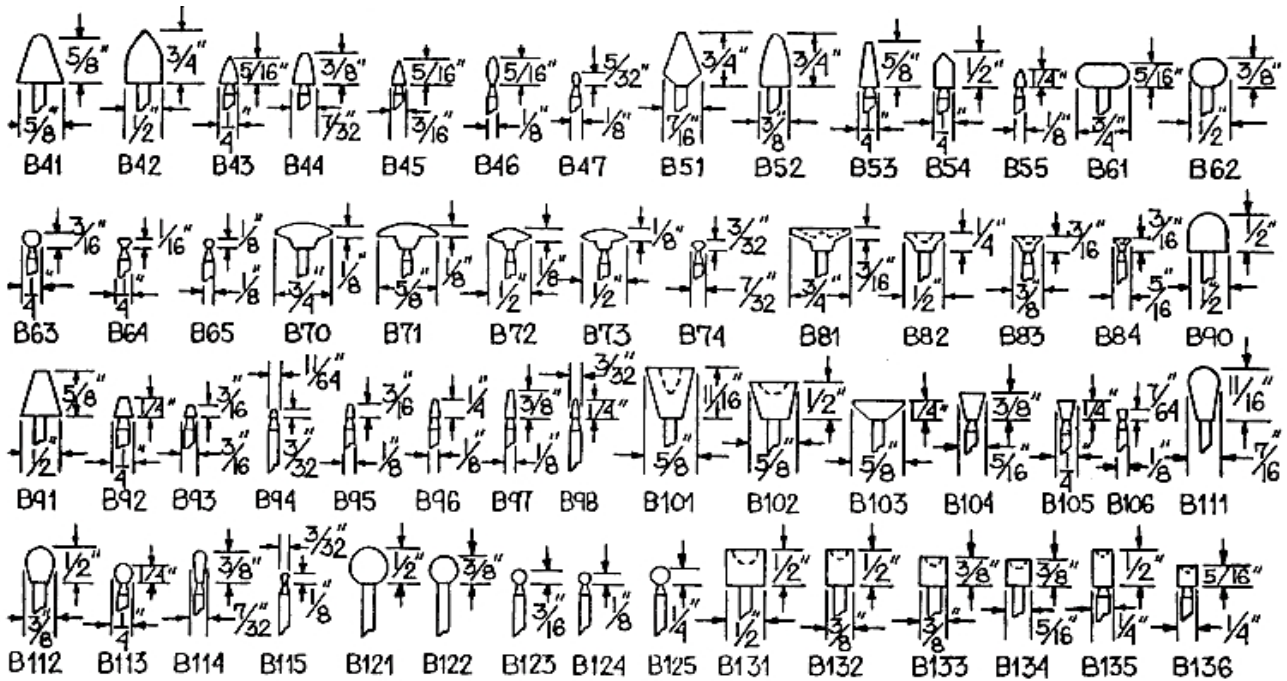
Shape	Red	Blue
A12	80115	80120
A13	80130	80135
A14	80145	80150
A15	80160	80165
A21	80175	80180
A22	80190	80195
A23	80205	80210

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

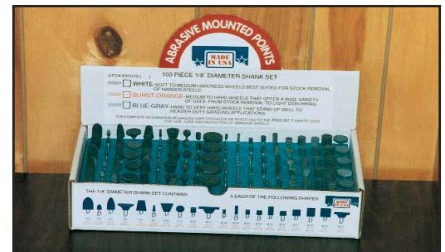
Shape	Red	Blue
B115	81090	81095
B121	81105	81110
B122	81120	81125
B123	81135	81140
B124	81150	81155
B125	81165	81170
B131	81180	81185
B132	81195	81200
B133	81210	81215
B134	81225	81230
B135	81240	81245
B136	81255	81260

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

Mounted Point Kits (Red or Blue)

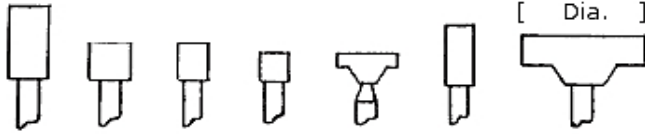
<p>The 1/8" diameter shank set contains the following shapes (5 of each, 100 pcs. total).</p>	<p>B42, B45, B52, B81, B91, B97, B102, B122, B136, W144, W146, W152, W160, W163, W167, W175, W176, W185, W200, W215</p>
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<p>The 1/4" diameter shank set contains the following shapes (5 of each, 50 pcs. total)</p>	<p>A4, A12, A14, A21, A32, A37, A39, A40, W206, W218</p>
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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)	N/A	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	DEBURRING 10 Hardness	SERIES 4000
DEBURRING XL	EXL	DEBURRING 7, 8 & 9 Hardness	SERIES 1000 7, 8 & 9 Hardness

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.

"XL2" Heavy Deburring Wheels:

Advanced resin system & high grain content make these the best 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
	8SM	4,500	545128	-
12 x 1 x 5	9SF	4,500	545129	545129-XL2
	8SF	3,000	545145	-
	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			
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			
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			
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/Flanges

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 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.

Long Life: These NEW discs are the ultimate in performance with a combination of aggressive cutting action, consistent finish, and durability that provides a long service life.

Heavy Duty: These RIGID discs contain a Ceramic / AO blend with additional grain & resin for added cut & durability. They provide the fastest initial stock removal making them 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
	S-SF	53445-5	53478-5
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	S-SF	53448-5	53481-5
	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 LL (Brown)
A-MED LL (Maroon)



Long Life

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



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 HD (Brown)
C-MED HD (Maroon)



Heavy Duty

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

Holdings - page 13. Other sizes are available.

Surface Conditioning: H & L Discs

Premium

(Fast cut with long life)

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

(Leaves the best finish)

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

Long Life

(Extra aggressive cut with Long)

4-1/2" Std. Pkg. 20	A-CRS	52453-LL
	A-MED	52455-LL
5" Std. Pkg. 20	A-CRS	52503-LL
	A-MED	52505-LL
7" Std. Pkg. 20	A-CRS	52703-LL
	A-MED	52705-LL

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

(Fast cut with long life)

Dia.	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



Self-Centering H & L Holders

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

HD - Ceramic Heavy Duty

(Most durable)

Dia.	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



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, can also be used with fiber disc backing pad & nuts on page 13.

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

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

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.

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 convention 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

Rubber drums - page 27

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



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 Hand Pads:

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

Size: 6" x 9"

Item No.	3M / Norton Equivalent	Grade	Grit	Steel Wool Equivalent	Std. Pkg Qty.
07440	7440 / 740	Tan Heavy Duty A/O	100-150	4	10/Shrink Wrap
07446	7446 / 746	Black for Stainless Steel S-MED	100-150	3	20/Box, 3 Boxes/Cs.
07447A	7447 / 747	Maroon General Purpose A/O	240-360	1	20/Box, 3 Boxes/Cs.
07447A-P	7447 / 747	Maroon (48 Case Pallet)	240-360	1	20/Box, 3 Boxes/Cs.
07450	96 / 796	Green GP Scouring #96	240-360	0	10/Shrink Wrap, 60/Cs.
07448	7448 / 748	Gray Ultra Fine S/C	800-1200	0000	20/Box, 3 Boxes/Cs.
07448-P	7448 / 748	Gray (48 Case Pallet)	800-1200	0000	20/Box, 3 Boxes/Cs.
07445	7445 / 456	White (Non-Abrasive)	-	0000	20/Box, 3 Boxes/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 rolls and other grits are also available, call for price & availability.

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

Flex-N-Finish Discs

Heavy Duty: discs can handle light to moderate surface cleaning and deburring. Great for satin and antique finishing, scratch blending and thread cleaning. They are highly conformable and can be ganged on a shaft.

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

Std. Pkg. 25

Size	Grade	Heavy Duty	Hi-Strength
		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



Tan Heavy Duty material (similar to "3M's Cut & Polish") is available on request.

Other sizes & arbor holes available.

Non-Woven Discs: Quick-Locks

Finishing:

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



Dia.	Grit	Finishing		Hi-Strength	
		Type "S"	Type "R"	Type "S"	Type "R"
2"	A- MED	53343	53376	53384	53390
	A- FINE	53344	53377	53385	53391
	A- VF	53345	53378	53386	53392
3"	A- MED	53346	53379	53387	53393
	A- FINE	53347	53380	53388	53394
	A- VF	53348	53381	53389	53395

Hi-Strength:

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

Surface Prep Discs

Maroon (A/O Fine) & Gray (S/C Super Fine) Surface Prep Discs: are ideal for paint removal, polishing & light scratch removal when a good finish is required. **DO NOT USE ON SHARP EDGES OR BURRS.**

Surface Prep Type "R"

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



GFP Wheels (Green Final Polish): 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!

Surface Prep T-27

Size	Max RPM	Grade	Item No.
4-1/2 x 7/8"	11,000	A-FINE	546040
		S-SF	546041
Std. Pkg. 5	11,000	GFP	546100



Unitized Type "R" Discs



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

XL wheels - Good 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.

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)

Preferred 3-M Standard Norton

XL Comparison

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	-	-

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	CP	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

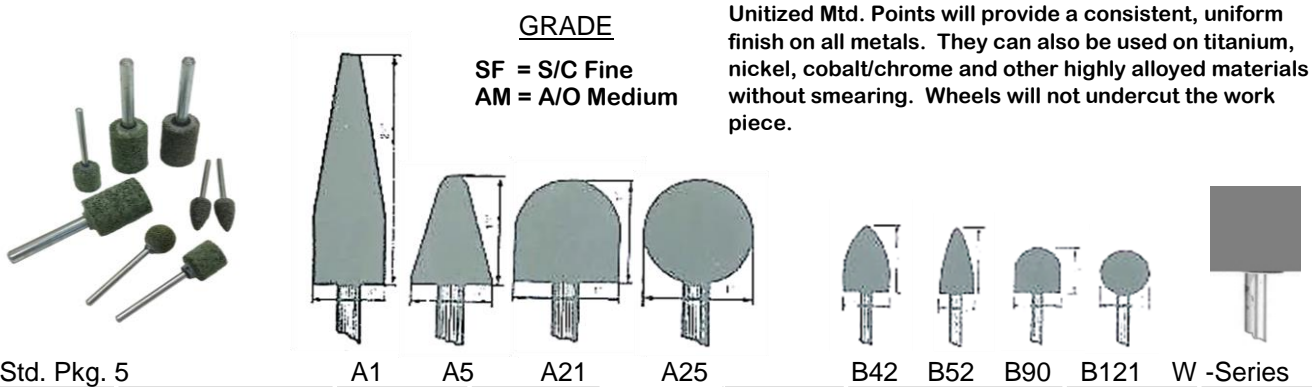
Other sizes, grades and arbor holes available on request.

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 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 30-32 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 30-32 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 29

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

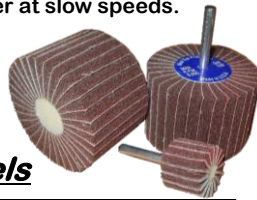
Std. Pkg. 10

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



Flex-N-Finish Wheels

Interleaf Mtd. & Unmounted flap wheels: alternating flaps of coated and non-woven material provides 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



Arbor Hole Bushings

Size (sold as pairs)	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
2" to 5/8"	10509
2" to 1"	10510
3" to 1" (Machined Aluminum)	105121
5" to 1" (Machined Aluminum)	105141

Finishing Mtd. & Unmounted flap wheels are great at conforming to irregular surfaces for light to moderate surface cleaning, satin and antique finishing and scratch blending.



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 540201
			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 can handle light to moderate surface cleaning and deburring, satin and antique finishing, scratch blending and thread cleaning. They are very conformable.



Mtd. Disc Wheel

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

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		RPM		Item No.
		Max	Optimum	
Dia. x AH	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		RPM		Item No.
		Max	Optimum	
Diameter	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



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	41	10665AF	15	10913AF	15	11082-3	17	11174	17	11339	17	12159	17	13167	17	21169	24	
07445	41	10665FF	15	10913FF	15	11082-4	17	11176	17	11341	17	12187	17	13169	17	21170	24	
07446	41	10666AF	15	10914AF	15	11082-5	17	11178	17	11343	17	12189	17	13170	17	21170-C	24	
07447A	41	10666FF	15	10914FF	15	11082-6	17	11179-3	17	11345	17	12190	17	13172	17	21172	24	
07447A-P	41	10813AF	15	10914T-AF	15	11082-7	17	11179-4	17	11347	17	12192	17	13174	17	21173	24	
07448	41	10813FF	15	10914T-FF	15	11082-8	17	11179-5	17	11361-05	17	12194	17	13176	17	21174	24	
07448-P	41	10814AF	15	10915AF	15	11090-3	17	11179-6	17	11361-06	17	12196	17	13178	17	21211	24	
07450	41	10814FF	15	10915FF	15	11090-4	17	11179-7	17	11361-07	17	12198	17	13232	17	21212	24	
10241	18	10814T-FF	15	10915T-AF	15	11090-5	17	11179-8	17	11361-08	17	12239	17	13234	17	21214	24	
10242	18	10815AF	15	10915T-FF	15	11090-6	17	11182-3	17	11362	17	12241	17	13235	17	21223	24	
10243	18	10815FF	15	10916AF	15	11090-7	17	11182-4	17	11364	17	12242	17	13237	17	21224	24	
10244	18	10815T-FF	15	10916FF	15	11090-8	17	11182-5	17	11365	17	12244	17	13239	17	21226	24	
10246	18	10816AF	15	10916T-AF	15	11091-3	17	11182-6	17	11367	17	12246	17	13241	17	21270	24	
10261	18	10816FF	15	10916T-FF	15	11091-4	17	11182-7	17	11369	17	12248	17	13243	17	21271	24	
10263	18	10816T-FF	15	10917AF	15	11091-5	17	11182-8	17	11371	17	12250	17	13284	17	21271-C	24	
10264	18	10817AF	15	10917FF	15	11091-6	17	11195-3	17	11373	17	12343	17	13286	17	21272	24	
10266	18	10817FF	15	10918AF	15	11091-7	17	11195-4	17	11375	17	12345	17	13287	17	21272-C	24	
10281	18	10823AF	15	10918FF	15	11091-8	17	11195-5	17	11376	17	12346	17	13289	17	21274	24	
10283	18	10823FF	15	10919AF	15	11104-3	17	11195-6	17	11377	17	12348	17	13291	17	21274-C	24	
10284	18	10824AF	15	10919FF	15	11104-4	17	11195-7	17	11378	17	12350	17	13293	17	21276	24	
10286	18	10824FF	15	10920AF	15	11104-5	17	11195-8	17	11379	17	12352	17	13295	17	21277	24	
10341	18	10825AF	15	10920FF	15	11104-6	17	11206	17	11380	17	12354	17	13388	17	21282	24	
10343	18	10825FF	15	10921AF	15	11104-7	17	11208	17	11381	17	12804	18	13390	17	21283	24	
10344	18	10826AF	15	10921FF	15	11104-8	17	11209	17	11382	17	12805	18	13391	17	21283-C	24	
10346	18	10826FF	15	10923AF	15	11117-3	17	11211	17	11383	17	12807	18	13393	17	21284	24	
10500	36	10827AF	15	10923FF	15	11117-4	17	11213	17	11384	17	12815	18	13395	17	21284-C	24	
10502	18	10827FF	15	10924AF	15	11117-5	17	11215	17	11385	17	12816	18	13397	17	21285	24	
10503	18	10853AF	15	10924FF	15	11117-6	17	11217	17	11386	17	12818	18	13399	17	21286	24	
10504	18	10853FF	15	10925AF	15	11117-7	17	11232	17	11388	17	12826	18	21136	24	21286-C	24	
10509	46	10854AF	15	10925FF	15	11117-8	17	11234	17	11390	17	12827	18	21137	24	21288	24	
10510	46	10854FF	15	10926AF	15	11127-3	17	11235	17	11391	17	12829	18	21138	24	21289	24	
105121	36	10855AF	15	10926FF	15	11127-4	17	11237	17	11393	17	12837	18	21140	24	21290	24	
105141	36	10855FF	15	10927AF	15	11127-5	17	11239	17	11395	17	12838	18	21159	24	21331	24	
10613AF	15	10856AF	15	10927FF	15	11127-6	17	11241	17	11397	17	12840	18	21159-C	24	21331-C	24	
10613FF	15	10856FF	15	10928AF	15	11127-7	17	11243	17	11399	17	12848	18	21160	24	21332	24	
10614AF	15	10863AF	15	10928FF	15	11127-8	17	11258	17	11414	17	12849	18	21160-C	24	21332-C	24	
10614FF	15	10863FF	15	10929AF	15	11128-3	17	11260	17	11416	17	12851	18	21161	24	21333	24	
10615AF	15	10864AF	15	10929FF	15	11128-4	17	11261	17	11417	17	12859	18	21162	24	21334	24	
10615FF	15	10864FF	15	10930AF	15	11128-5	17	11263	17	11419	17	12860	18	21162-C	24	21334-C	24	
10616AF	15	10865AF	15	10930FF	15	11128-6	17	11265	17	11421	17	12862	18	21164	24	21336	24	
10616FF	15	10865FF	15	10931AF	15	11128-7	17	11267	17	11423	17	12870	18	21165	24	21337	24	
10617AF	15	10866AF	15	10931FF	15	11128-8	17	11269	17	11425	17	12871	18	21166	24	21338	24	
10617FF	15	10866FF	15	10953AF	15	11129-3	17	11271	17	12148	17	12873	18	21167	24	21340	24	
10623AF	15	10870	16	10953FF	15	11129-4	17	11273	17	12150	17	12881	18	21167-C	24	21341	24	
10623FF	15	10871	16	10954AF	15	11129-5	17	11274	17	12151	17	12882	18	21168	24	21343	24	
10624AF	15	10872	16	10954FF	15	11129-6	17	11276	17	12153	17	12884	18	21168-C	24	21343-C	24	
10624FF	15	10873	16	10955AF	15	11129-7	17	11278	17	12155	17	12892	18			21344	24	
10625AF	15	10880	16	10955FF	15	11129-8	17	11280	17	12157	17	12893	18			21344-C	24	
10625FF	15	10881	16	10956AF	15	11139-1	17	11282	17			12895	18			21345	24	
10626AF	15	10882	16	10956FF	15	11139-3	17	11284	17			12903	18			21346	24	
10626FF	15	10883	16	10963AF	15	11139-4	17	11286	17			12904	18			21346-C	24	
10627AF	15	10900	16	10963FF	15	11139-5	17	11287	17			12906	18			21348	24	
10627FF	15	10901	16	10964AF	15	11139-6	17	11289	17			12914	18			21349	24	
10653AF	15	10902	16	10964FF	15	11139-7	17	11291	17			12915	18			21350	24	
10653FF	15	10903	16	10965AF	15	11139-8	17	11293	17			12917	18			21355	24	
10654AF	15	10906	16	10965FF	15	11156	17	11295	17			12950	18			21356	24	
10654FF	15	10907	16	10966AF	15	11157	17	11297	17			12951	18			21358	24	
10655AF	15	10908	16	10966FF	15	11159	17	11299	17			12952	18			21439	24	
10655FF	15	10909	16			11161	17	11300	17			12953	18			21440	24	
10656AF	15					11163	17	11302	17			12954	18			21442	24	
10656FF	15					11165	17	11304	17			12955	18			21451	24	
10663AF	15					11167	17	11306	17							21452	24	
10663FF	15					11169	17	11308	17							21454	24	
10664AF	15					11170	17	11336	17							21523	24	
10664FF	15					11172	17	11338	17									

ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.		
21523-AH	24	26446	27	27926	27	30444-8	23	30522-8	23	31243-E	12	31454-E	12	31642	12	319022	11
21524	24	26448	27	27927	27	30444-Z3	22	30522-Z3	22	31244-E	12	31455	12	31642-E	12	319023	11
21524-AH	24	26456	27	27929	27	30446-8	23	30523-8	23	31250-E	12	31455-E	12	31643	12	319024	11
21526	24	26457	27	27937	27	30447-8	23	30523-Z3	22	31251-E	12	31456	12	31643-E	12	319025	11
21526-AH	24	26459	27	27938	27	30448-8	23	30524-8	23	31252-E	12	31456-E	12	31644	12	319026	11
21535	24	26467	27	27940	27	30450-8	23	30524-Z3	22	31253-E	12	31458	12	31644-E	12	319027	11
21535-AH	24	26468	27	27948	27	30450-C3	22	30525-8	23	31254-E	12	31458-E	12	31649	12	319028	11
21536	24	26470	27	27949	27	30450-Z3	22	30525-Z3	22	31255-E	12	31459	12	31649-E	12	319031	11
21536-AH	24	26478	27	27951	27	30451-8	23	30526-8	23	31256-E	12	31460	12	31650	12	319032	11
21538	24	26479	27	27959	27	30451-Z3	22	30526-Z3	22	31258-E	12	31461	12	31650-E	12	319033	11
21538-AH	24	26481	27	27960	27	30452-8	23	30534-8	23	31262-E	12	31462	12	31651	12	319034	11
21547-AH	24	26500	27	27962	27	30452-C3	22	30534-Z3	22	31263-E	12	31462-E	12	31651-E	12	319035	11
21548-AH	24	26501	27	27970	27	30452-Z3	22	30535-8	23	31264-E	12	31463	12	31652	12	319036	11
21550-AH	24	26503	27	27971	27	30453-8	23	30535-Z3	22	31265-E	12	31463-E	12	31652-E	12	319037	11
21796	24	26511	27	27973	27	30453-C3	22	30536-8	23	31266-E	12	31464	12	31653	12	319038	11
21799	24	26512	27	27981	27	30453-Z3	22	30536-Z3	22	31267-E	12	31464-E	12	31653-E	12	319041	11
21800	24	26514	27	27982	27	30454-8	23	30537-8	23	31268-E	12	31465	12	31654	12	319042	11
21916	24	26522	27	27984	27	30454-C3	22	30537-Z3	22	31414-E	12	31465-E	12	31654-E	12	319043	11
21919	24	26523	27	27992	27	30454-Z3	22	30538-8	23	31415-E	12	31466	12	31655	12	319044	11
21920	24	26525	27	27993	27	30455-8	23	30538-Z3	22	31416-E	12	31466-E	12	31655-E	12	319045	11
23105	25	26533	27	27995	27	30455-Z3	22	30558-8	23	31417-E	12	31467	12	31656	12	319046	11
23105-C	25	26534	27	28003	27	30456-8	23	30558-Z3	22	31418-E	12	31467-E	12	31656-E	12	319047	11
23106	25	26536	27	28004	27	30456-C3	22	30559-8	23	31419-E	12	31468	12	31658	12	319048	11
23106-C	25	26544	27	28006	27	30456-Z3	22	30559-Z3	22	31420-E	12	31468-E	12	31658-E	12	319131	11
23108	25	26545	27	30357-30374-8	23	30458-8	23	30560-8	23	31438	12	31470	12	31659	12	319132	11
23108-C	25	26547	27	30381-8	23	30459-8	23	30560-Z3	22	31438-E	12	31471	12	31659-E	12	319133	11
23141	25	26555	27	30382-8	23	30474-8	23	30561-8	23	31439	12	31472	12	31660	12	319134	11
23141-C	25	26556	27	30383-8	23	30475-8	23	30561-Z3	22	31439-E	12	31536FD	16	31660-E	12	319135	11
23142	25	26558	27	30384-8	23	30476-8	23	30562-8	23	31440	12	31538FD	16	31661	12	319136	11
23142-C	25	27728	27	30386-8	23	30477-8	23	30562-Z3	22	31440-E	12	31539FD	16	31662	12	319137	11
23144	25	27729	27	30392-8	23	30478-8	23	30570-8	23	31441	12	31541FD	16	31662-E	12	319138	11
23144-C	25	27731	27	30393-8	23	30480-8	23	30570-Z3	22	31441-E	12	31548FD	16	31663	12	319141	11
23146	25	27739	27	30394-8	23	30486-8	23	30571-8	23	31442	12	31550FD	16	31663-E	12	319142	11
23285	25	27740	27	30395-8	23	30487-8	23	30571-Z3	22	31442-E	12	31551FD	16	31664	12	319143	11
23285-C	25	27742	27	30396-8	23	30488-8	23	30572-8	23	31443	12	31553FD	16	31664-E	12	319144	11
23286	25	27750	27	30398-8	23	30489-8	23	30572-Z3	22	31443-E	12	31560	16	31665	12	319145	11
23286-C	25	27751	27	30404-8	23	30490-8	23	30573-8	23	31444	12	31614-E	12	31665-E	12	319146	11
23288	25	27753	27	30405-8	23	30492-8	23	30573-Z3	22	31444-E	12	31615-E	12	31666	12	319147	11
23288-C	25	27761	27	30406-8	23	30498-8	23	30574-8	23	31449	12	31616-E	12	31666-E	12	319148	11
23321	25	27762	27	30407-8	23	30499-8	23	30574-Z3	22	31449-E	12	31617-E	12	31667	12	319210	16
23321-C	25	27764	27	30408-8	23	30500-8	23	30582-8	23	31450	12	31618-E	12	31667-E	12	319211	16
23322	25	27772	27	30410-8	23	30501-8	23	30583-8	23	31451	12	31619-E	12	31668	12	319212	16
23322-C	25	27773	27	30416-8	23	30502-8	23	30584-8	23	31451-E	12	31620-E	12	31668-E	12	319213	16
23324	25	27775	27	30417-8	23	30504-8	23	30585-8	23	31452	12	31638	12	31670	12	319310	16
23324-C	25	27783	27	30418-8	23	30510-8	23	30586-8	23	31452-E	12	31638-E	12	31671	12	319311	16
23326	25	27784	27	30419-8	23	30510-C3	22	31214-E	12	31453	12	31639	12	31672	12	319312	16
23357	25	27786	27	30420-8	23	30510-Z3	22	31215-E	12	31453-E	12	31639-E	12	31719	16	319313	16
23358	25	27794	27	30422-8	23	30511-8	23	31216-E	12	31454	12	31640	12	31719FD	16	32210	16
23360	25	27795	27	30438-8	23	30511-Z3	22	31217-E	12			31640-E	12	31721	16	32211	16
23405	25	27797	27	30438-C3	22	30512-8	23	31218-E	12			31641	12	31721FD	16	32212	16
23406	25	27805	27	30438-Z3	22	30512-C3	22	31219-E	12			31641-E	12	31722	16	32213	16
23408	25	27806	27	30439-8	23	30512-Z3	22	31220-E	12					31722FD	16	32310	16
23465	25	27808	27	30439-Z3	22	30513-8	23	31238-E	12					31724	16	32311	16
23466	25	27816	27	30440-8	23	30513-C3	22	31239-E	12					31724FD	16	32312	16
23468	25	27817	27	30440-C3	22	30513-Z3	22	31240-E	12					31727	16	32313	16
23621	25	27819	27	30440-Z3	22	30514-8	23	31241-E	12					31727FD	16		
23622	25	27827	27	30441-8	23	30514-C3	22	31242-E	12					31729	16		
23624	25	27828	27	30441-C3	22	30514-Z3	22							31729FD	16		
26423	27	27830	27	30441-Z3	22	30515-Z3	22							31730	16		
26424	27	27904	27	30442-8	23	30516-8	23							31730FD	16		
26426	27	27905	27	30442-C3	22	30516-C3	22							31732	16		
26434	27	27907	27	30442-Z3	22	30516-Z3	22							31732FD	16		
26435	27	27915	27	30443-8	23												
26437	27	27916	27	30443-Z3	22												
26445	27	27918	27														

ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.
32438	11	34920-03	20	34935-14-8	21	35056-14	20	37110	14	37610	14	50254	13	52405	38	53187-3	41
32439	11	34920-05	20	34935-15	21	35056-15	20	37111	14	37611	14	50254-R	13	52405-C	38	53188-1	41
32440	11	34920-06	20	34935-15-5	21	35056-17	20	37112	14	37612	14	50254SF	13	52407	38	53188-2	41
32441	11	34920-07	20	34935-15-8	21	35056-18	20	37113	14	37613	14	50257	13	52407-C	38	53188-3	41
32442	11	34920-08	20	34935-17	21	35056-19	20	37114	14	37614	14	50258	13	52408	38	53250	40
32443	11	34920-10	20	34935-17-5	21	35056-21	20	37116	14	37616	14	50258-R	13	52452AH	38	53251	40
32444	11	34920-11	20	34935-17-8	21	35056-22	20	37118	14	37618	14	50259	13	52453	38	53252	40
32449	11	34920-14	20	34936-03	21	35062-05	21	37119	14	37619	14	50259-R	13	52453AH	38	53255	40
32450	11	34920-15	20	34936-05	21	35062-06	21	37120	14	37620	14	50259SF	13	52453-C	38	53256	40
32451	11	34920-17	20	34936-06	21	35062-07	21	37121	14	37621	14	50260	13	52453-LL	38	53257	40
32452	11	34925-03	20	34936-06-6	21	35062-08	21	37122	14	37622	14	50260-R	13	52454AH	38	53343	42
32453	11	34925-05	20	34936-07	21	35062-10	21	37124	14	37624	14	50260SF	13	52455	38	53344	42
32454	11	34925-06	20	34936-08	21	35062-11	21	37126	14	37626	14	50264	13	52455AH	38	53345	42
32455	11	34925-07	20	34936-08-6	21	35062-12	21	37127	14	37627	14	50328	28	52455-C	38	53346	42
32456	11	34925-08	20	34936-09	21	35062-14	21	37128	14	37628	14	50329	28	52455-LL	38	53347	42
32461	11	34925-10	20	34936-10	21	35062-15	21	37129	14	37629	14	50329-6	28	52456	38	53348	42
32462	11	34925-11	20	34936-10-6	21	35062-17	21	37130	14	37630	14	50329-6-FS	28	52457	38	53376	42
32463	11	34925-14	20	34936-11	21	35062-18	21	37131	14	37632	14	50330	28	52457-C	38	53377	42
32464	11	34925-15	20	34936-11-6	21	35062-19	21	37202	14	50104	25	50330-6	28	52502AH	38	53378	42
32465	11	34925-17	20	34936-14	21	35062-21	21	37203	14	50105	25	50330-6-FS	28	52503	38	53379	42
32466	11	34925-18	20	34936-15	21	35062-22	21	37204	14	50108	25	50401	13	52503AH	38	53380	42
32467	11	34925-19	20	34936-17	21	35063-05	21	37205	14	50108-6	25	50404	13	52503-C	38	53381	42
32468	11	34925-21	20	34967-05	20	35063-06	21	37206	14	50109	25	50410	13	52503-LL	38	53384	42
32638	11	34925-22	20	34967-06	20	35063-07	21	37208	14	50109-6	25	50411	13	52504AH	38	53385	42
32639	11	34933-05	21	34967-07	20	35063-08	21	37209	14	50110	25	50415	13	52505	38	53386	42
32640	11	34933-06	21	34967-08	20	35063-10	21	37210	14	50115	25	50418	13	52505AH	38	53387	42
32641	11	34933-07	21	34967-09	20	35063-11	21	37211	14	50116	25	50431	13	52505-C	38	53388	42
32642	11	34933-08	21	34967-10	20	35063-12	21	37212	14	50116-6	25	50431-LP	13	52505-LL	38	53389	42
32643	11	34933-10	21	34967-11	20	35063-14	21	37214	14	50117	25	50432	13	52506	38	53390	42
32644	11	34933-11	21	34967-12	20	35063-15	21	37215	14	50121	25	50432-LP	13	52507	38	53391	42
32649	11	34933-14	21	34967-14	20	35063-17	21	37216	14	50121-6	25	50433	13	52507-C	38	53392	42
32650	11	34933-15	21	34967-15	20	35063-18	21	37217	14	50122	25	50436	13	52508	38	53393	42
32651	11	34933-17	21	34967-17	20	35063-19	21	37218	14	50201	23	50437	13	52703	38	53394	42
32652	11	349331-05	21	34972	20	35063-21	21	37220	14	50204	23	50438	13	52703-C	38	53395	42
32653	11	349331-06	21	34973	20	35063-22	21	37510	14	50206	23	50506	29	52703-LL	38	53437	37
32654	11	349331-07	21	34974	20	35065-05	21	37511	14	50208	23	50507	29	52705	38	53438	37
32655	11	349331-08	21	34975	20	35065-06	21	37512	14	50209	23	50510	29	52705-C	38	53439	37
32656	11	349331-10	21	34976	20	35065-07	21	37513	14	50210	23	50524	29	52705-LL	38	53440	37
32661	11	349331-11	21	34977	20	35065-08	21	37514	14	50215	20	50525	29	52706	38	53441	37
32662	11	349331-14	21	34978	20	35065-10	21	37516	14	50215-5	20	50533	29	52707	38	53441-4	37
32663	11	349331-15	21	34979	20	35065-11	21	37518	14	50216	20	50534	29	52707-C	38	53442	37
32664	11	349331-17	21	34981	20	35065-12	21	37519	14	50216-6	20	50542	29	52708	38	53442-5	37
32665	11	34935-03	21	34982	20	35065-14	21	37520	14	50217	20	50543	29	53033	41	53443	37
32666	11	34935-05	21	34983	20	35065-15	21	37521	14	50217-5	20	50547	29	53034	41	53443-HD	37
32667	11	34935-05-5	21	35066-05	20	35065-17	21	37522	14	50217-8	20	50548	29	53035	41	53443-LL	37
32668	11	34935-05-8	21	35055-06	20	35065-18	21	37524	14	50218	20	50549	29	53036	41	53443-M	37
33957	28	34935-06	21	35055-07	20	35065-19	21	37526	14	50218-6	20	50557	28	53039	41	53444	37
33958	28	34935-06-5	21	35055-08	20	35065-21	21	37527	14	50230	13	50558	28	53045	41	53444-4	37
33960	28	34935-06-8	21	35055-10	20	35065-22	21	37528	14	50234	13	50559	28	53046	41	53444-HD	37
33969	28	34935-07	21	35055-11	20	35066-05	21	37529	14	50237	13	50560	28	53047	41	53444-LL	37
33970	28	34935-07-5	21	35055-12	20	35066-06	21	37530	14	50240	13	50561	28	53048	41	53444-M	37
33972	28	34935-07-8	21	35055-14	20	35066-07	21	37532	14	50240SF	13	50690	31	53051	41	53445	37
33981	28	34935-08	21	35055-15	20	35066-08	21			50241	13	50690-1	31	53057	41	53445-5	37
33982	28	34935-08-5	21	35055-17	20	35066-10	21			50241SF	13	50690-2	31	53058	41	53445-M	37
33984	28	34935-08-8	21	35055-18	20	35066-11	21			50250	13	50690-3	43	53059	41	53446	37
34005	28	34935-09-5	21	35055-19	20	35066-12	21			50251	13	50794	43	53060	41	53446-HD	37
34006	28	34935-09-8	21	35055-21	20	35066-14	21			50252	13	50795	43	53063	41	53447	37
34008	28	34935-10	21	35055-22	20	35066-15	21			50252-R	13	50801	43	53136	41	53447-4	37
34029	28	34935-10-5	21	35056-05	20	35066-17	21			50253	13	50802	43	53137	41	53447-HD	37
34030	28	34935-10-8	21	35056-06	20	35066-18	21			50253-R	13	50803	43	53138	41	53447-LL	37
34032	28	34935-11	21	35056-07	20	35066-19	21			50253SF	13	50931	17	53150	41	53447-M	37
34053	28	34935-11-5	21	35056-08	20	35066-21	21					50933	17	53151	41		
34054	28	34935-11-8	21	35056-10	20	35066-22	21					52403	38	53152	41		
34056	28	34935-14	21	35056-11	20							52403-C	38	53187-1	41		
		34935-14-5	21	35056-12	20									53187-2	41		

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53448-5	37	53660	39	5400201	46	544615	42	546100	42	550022	45	700490	7	700811-08	7	70132-Z3	7		
53448-M	37	53661	39	5400301	46	544616	42	54944	44	550023	45	700490-C3	7	700811-08-C3	7	70150	7		
53470	37	53662	39	5400302	46	544617	42	54945	44	55007	40	700490-Z3	7	700811-08-Z3	7	70150-C3	7		
53471	37	53668	39	54020103	46	544619	42	54950	44	55008	40	700491	7	70084	7	70150-Z3	7		
53472	37	53669	39	54020105	46	544892	43	54951	44	55009	40	700491-C3	7	70084-C3	7	70151	7		
53473	37	53670	39	54020107	46	544893	43	54953	44	55010	40	700491-Z3	7	70084-Z3	7	70151-C3	7		
53474	37	53676	39	54030103	46	544894	43	54954	44	55011	40	70058-02	7	70085	7	70151-Z3	7		
53475	37	53677	39	54030105	46	544895	43	54956	44	55012	40	70058-02-C3	7	70085-C3	7	70152	7		
53476	37	53678	39	54030107	46	544896	43	54957	44	55015	40	70058-03	7	70085-Z3	7	70152-C3	7		
53476-HD	37	53679	39	54030203	46	544906	43	54959	44	55016	40	70058-03-C3	7	70086	7	70152-Z3	7		
53476-M	37	53696	39	54030205	46	544907	43	54960	44	55017	40	70058-03-Z3	7	70086-C3	7	70153	7		
53476-LL	37	53697	39	54030207	46	544911	43	54962	44	55020	40	70058-04	7	70086-Z3	7	70153-C3	7		
53477	37	53698	39	54117	46	544912	43	54963	44	55021	40	70058-04-C3	7	70087	7	70153-Z3	7		
53477-4	37	53728	39	54118	46	544913	43	54965	44	55022	40	70058-04-Z3	7	70087-C3	7	70154	7		
53477-HD	37	53729	39	54119	46	544914	43	54966	44	56006	40	70059	7	70087-Z3	7	70154-C3	7		
53477-LL	37	53730	39	54123	46	544915	43	54968	44	56007	40	70059-C3	7	70088	7	70154-Z3	7		
53477-M	37	53736	39	54124	46	544936	43	54969	44	56008	40	70059-Z3	7	70088-C3	7	70155	7		
53478	37	53737	39	54125	46	544939	43	54971	44	56011	40	70060	7	70088-Z3	7	70155-C3	7		
53478-5	37	53738	39	54131	46	545006	43	54972	44	56012	40	70060-C3	7	70089	7	70155-Z3	7		
53478-M	37	53752	39	54132	46	545016	43	54977	44	56013	40	70060-Z3	7	70089-C3	7	70156	7		
53479	37	53753	39	54133	46	545018	43	54978	44	56016	40	70061	7	70089-Z3	7	70156-C3	7		
53479-HD	37	53754	39	54138	46	545019	43	54980	44	56017	40	70061-C3	7	70090	7	70156-Z3	7		
53479-LL	37	53772	39	54139	46	545020	43	54981	44	56018	40	70061-Z3	7	70090-C3	7	70159-02	7		
53479-M	37	53773	39	54140	46	545047	43	54983	44	57041	47	70062	7	70090-Z3	7	70159-02-C3	7		
53480	37	53774	39	54213	46	545051	43	54984	44	57042	47	70062-C3	7	70120	7	70159-02-Z3	7		
53480-4	37	53788	39	54215	46	545056	43	549861	45	57044	47	70062-Z3	7	70120-C3	7	70159-03	7		
53480-HD	37	53789	39	54217	46	545103	36	549862	45	57050	47	70072	7	70120-Z3	7	70159-03-C3	7		
53480-LL	37	53790	39	54219	46	545105	36	549863	45	57052	47	70072-C3	7	70121	7	70159-03-Z3	7		
53480-M	37	53800	39	54221	46	545105-XL2	36	549865	45	57053	47	70072-Z3	7	70121-C3	7	70159-04	7		
53481	37	53801	39	54223	46	545109	36	549871	45	57060	47	70073	7	70121-Z3	7	70159-04-C3	7		
53481-5	37	53802	39	54225	46	545109-XL2	36	549872	45	57062	47	70073-C3	7	70122	7	70159-04-Z3	7		
53481-M	37	53808	39	54227	46	545110	36	549873	45	57063	47	70073-Z3	7	70122-C3	7	70159-05	7		
534940	40	53809	39	54300	39	545110-XL2	36	549875	45	68010	10	70074	7	70122-Z3	7	70159-05-C3	7		
534941	40	53810	39	54265	19	545111	36	549901	45	68026	10	70074-C3	7	70123	7	70159-05-Z3	7		
534942	40	53824	39	to	19	545112	36	549902	45	68027	10	70074-Z3	7	70123-C3	7	70159-06	7		
534950	40	53825	39	54321	19	545112-XL2	36	549903	45	69920	10	70075	7	70123-Z3	7	70159-06-C3	7		
534951	40	53826	39			545126	36	549905	45	69921	10	70075-C3	7	70124	7	70159-06-Z3	7		
534952	40	53832	39	54325	46	545126-XL2	36	549911	45	69923	10	70075-Z3	7	70124-C3	7	70159-07	7		
534960	40	53833	39	54326	46	545127	36	549912	45	69925	10	70076	7	70124-Z3	7	70159-07-C3	7		
534961	40	53834	39	54327	46	545127-XL2	36	549913	45	69932	10	70076-C3	7	70125-07	7	70159-07-Z3	7		
534962	40	53856	39	54328	46	545128	36	549915	45	69933	10	70076-Z3	7	70125-07-C3	7	70159-08	7		
535015	39	53857	39	54329	46	545129	36	549921	45	69935	10	70077	7	70125-07-Z3	7	70159-08-C3	7		
535025	39	53858	39	54330	46	545129-XL2	36	549922	45	69937	10	70077-C3	7	70125-08	7	70159-08-Z3	7		
535035	39	53902-F	21	54341	46	545145	36	549923	45	69944	10	70077-Z3	7	70125-08-C3	7	701602	7		
53512	39	53903-F	21	54342	46	545147	36	549925	45	69945	10	70078	7	70125-08-Z3	7	701602-C3	7		
53513	39	53904	38	54343	46	545147-9AM	36	549931	45	69947	10	70078-C3	7	70126	7	701602-Z3	7		
53514	39	53904SH	38	54421	46	545201	36	549932	45	69949	10	70078-Z3	7	70126-C3	7	701603	7		
53524	39	53904Z3	38	54422	46	545204	36	549933	45	69956	10	700811-02	7	70126-Z3	7	701603-C3	7		
53525	39	53904Z3-CP	38	54426	46	545207	36	549935	45	69957	10	700811-02-C3	7	70127	7	701603-Z3	7		
53526	39	53905	22	54427	46	545236	36	549951	45	69959	10	700811-02-Z3	7	70127-C3	7	701604	7		
53532	39	53905-5	22	54433	46	545238	36	549952	45	69961	10	700811-03	7	70127-Z3	7	701604-C3	7		
53533	39	53905IV	22	54434	46	545240	36	549953	45	70045	7	700811-03-C3	7	70128	7	701604-Z3	7		
53534	39	53905IV-5	22	54441	46	545242	36	549955	45	70045-C3	7	700811-03-Z3	7	70128-C3	7	701605	7		
53535	39	53905IV-8	22	54442	46	545409	36	549971	45	70045-Z3	7	700811-04	7	70128-Z3	7	701605-C3	7		
53536	39	53905F	22	544591	42	545411	36	549972	45	70046	7	700811-04-C3	7	70129	7	701605-Z3	7		
53537	39	53905F-5	22	544600	42	545412	36	549973	45	70046-C3	7	700811-04-Z3	7	70129-C3	7	701606	7		
535405	39	53905F-8	22	544602	42	545416	36	549975	45	70046-Z3	7	700811-05	7	70129-Z3	7	701606-C3	7		
535415	39	53905Z1	38	544603	42	545418	36	550009	45	70047	7	700811-05-C3	7	70130	7	701606-CJ3	6		
535425	39	53905Z1-CP	38	544603-5	42	545419	36	550010	45	70047-C3	7	700811-05-Z3	7	70130-C3	7	701606-J3	6		
53556	39	53906	22	544604	42	545420	36	550011	45	70047-Z3	7	700811-06	7	70130-Z3	7	701606-Z3	7		
53557	39	53906-6	22	544605	42	545422	36	550012	45	70048	7	700811-06-C3	7	70131	7	701607	7		
53558	39	53906IV	22	544611	42	546020	42	550013	45	70048-C3	7	700811-06-Z3	7	70131-C3	7	701607-C3	7		
535705	39	53906IV-6	22	544612	42	546021	42	550019	45	70048-Z3	7	700811-07	7	70131-Z3	7	701607-Z3	7		
535715	39	53906F	22			546040	42	550020	45	70049	7	700811-07-C3	7	70132	7				

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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.	ITEM NO.	PG.
701608	7	70190-06-C3	7	70259-Z3	7	70268-04-C3	8	70303-11-CJ3	6	70342	8	70384-PC	6	70523-Z3	8	70556-08	8
701608-C3	7	70190-06-CJ3	6	70260	7	70268-04-Z3	8	70303-11-J3	6	70342-C3	8	70384-Z3	8	70524	8	70556-08-C3	8
701608-CJ3	6	70190-06-J3	6	70260-C3	7	70268-05	8	70303-14-J3	6	70342-Z3	8	70386-CJ3	6	70524-C3	8	70556-08-Z3	8
701608-J3	6	70190-06-Z3	7	70260-Z3	7	70268-05-C3	8	70303-15-J3	6	70343	8	70386-J3	6	70524-PC	6	70558	8
701608-Z3	7	70190-07	7	70261	7	70268-05-Z3	8	70303-17-J3	6	70343-C3	8	703861-CJ3	6	70524-Z3	8	70558-C3	8
701610-CJ3	6	70190-07-C3	7	70261-C3	7	70268-06	8	70318	8	70343-Z3	8	703861-J3	6	70525	8	70558-Z3	8
701610-J3	6	70190-07-Z3	7	70261-Z3	7	70268-06-C3	8	70318-C3	8	70344	8	70388-J3	6	70525-C3	8	70559	8
701611-CJ3	6	70190-08	7	70262	7	70268-06-Z3	8	70318-PC	6	70344-C3	8	70389-J3	6	70525-PC	6	70559-C3	8
701611-J3	6	70190-08-C3	7	70262-C3	7	70268-07	8	70318-Z3	8	70344-Z3	8	70391-J3	6	70525-Z3	8	70559-Z3	8
701613-J3	6	70190-08-CJ3	6	70262-Z3	7	70268-07-C3	8	70319	8	70345	8	70426	8	70526	8	70560	8
701614-J3	6	70190-08-J3	6	70263	7	70268-07-Z3	8	70319-C3	8	70345-C3	8	70426-C3	8	70526-C3	8	70560-C3	8
701615-J3	6	70190-08-Z3	7	70263-C3	7	70268-08	8	70319-PC	6	70345-Z3	8	70426-Z3	8	70526-PC	6	70560-Z3	8
70162	7	70190-10-CJ3	6	70263-Z3	7	70268-08-C3	8	70319-Z3	8	70346	8	70427	8	70526-Z3	8	70561	8
70162-C3	7	70190-10-J3	6	70264	7	70268-08-Z3	8	70320	8	70346-C3	8	70427-C3	8	70527	8	70561-C3	8
70162-PC	6	70190-11-CJ3	6	70264-C3	7	70276	8	70320-C3	8	70346-CJ3	6	70427-Z3	8	70527-C3	8	70561-Z3	8
70162-Z3	7	70190-11-J3	6	70264-Z3	7	70276-C3	8	70320-PC	6	70346-J3	6	70428	8	70527-PC	6	70562	8
70163	7	70190-14-J3	6	702661-02	7	70276-Z3	8	70320-Z3	8	70346-Z3	8	70428-C3	8	70527-Z3	8	70562-C3	8
70163-C3	7	70190-15-J3	6	702661-02-C3	7	70277	8	70321	8	70347	8	70428-Z3	8	70528	8	70562-Z3	8
70163-PC	6	70202	7	702661-02-Z3	7	70277-C3	8	70321-C3	8	70347-C3	8	70429	8	70528-C3	8	70563	8
70163-Z3	7	70202-C3	7	702661-03	7	70277-Z3	8	70321-PC	6	70347-Z3	8	70429-C3	8	70528-PC	6	70563-C3	8
70164	7	70202-Z3	7	702661-03-C3	7	70278	8	70321-Z3	8	70348	8	70429-Z3	8	70528-Z3	8	70563-Z3	8
70164-C3	7	70203	7	702661-03-Z3	7	70278-C3	8	70322	8	70348-C3	8	70430	8	70546	8	70564	8
70164-PC	6	70203-C3	7	702661-04	7	70278-Z3	8	70322-C3	8	70348-CJ3	6	70430-C3	8	70546-C3	8	70564-C3	8
70164-Z3	7	70203-Z3	7	702661-04-C3	7	70279	8	70322-CJ3	6	70348-J3	6	70430-Z3	8	70546-Z3	8	70564-Z3	8
70165	7	70204	7	702661-04-Z3	7	70279-C3	8	70322-J3	6	70348-Z3	8	70431	8	70547	8	705701-02	8
70165-C3	7	70204-C3	7	702661-05	7	70279-Z3	8	70322-PC	6	70349-CJ3	6	70431-C3	8	70547-C3	8	705701-02-C3	8
70165-PC	6	70204-Z3	7	702661-05-C3	7	70280	8	70322-Z3	8	70349-J3	6	70431-Z3	8	70547-Z3	8	705701-02-Z3	8
70165-Z3	7	70205	7	702661-05-Z3	7	70280-C3	8	70323	8	70350-CJ3	6	70432	8	70548	8	705701-03	8
70166	7	70205-C3	7	702661-06	7	70280-Z3	8	70323-C3	8	70350-J3	6	70432-C3	8	70548-C3	8	705701-03-C3	8
70166-C3	7	70205-Z3	7	702661-06-C3	7	70281	8	70323-PC	6	70352-J3	6	70432-Z3	8	70548-Z3	8	705701-03-Z3	8
70166-PC	6	70206	7	702661-06-Z3	7	70281-C3	8	70323-Z3	8	70353-J3	6	70438	8	70549	8	705701-04	8
70166-Z3	7	70206-C3	7	702661-07	7	70281-Z3	8	70324	8	70354-J3	6	70438-C3	8	70549-C3	8	705701-04-C3	8
70167	7	70206-Z3	7	702661-07-C3	7	70282	8	70324-C3	8	70355-17-J3	6	70438-Z3	8	70549-Z3	8	705701-04-Z3	8
70167-C3	7	70207	7	702661-07-Z3	7	70282-C3	8	70324-CJ3	6	70378	8	70439	8	70550	8	70571	8
70167-PC	6	70207-C3	7	702661-08	7	70282-Z3	8	70324-J3	6	70378-C3	8	70439-C3	8	70550-C3	8	70571-C3	8
70167-Z3	7	70207-Z3	7	702661-08-C3	7	70294	8	70324-PC	6	70378-PC	6	70439-Z3	8	70550-Z3	8	70571-Z3	8
70168	7	70208	7	702661-08-Z3	7	70294-C3	8	70324-Z3	8	70378-Z3	8	70440	8	70551	8	70572	8
70168-C3	7	70208-C3	7	70267-02	7	70294-Z3	8	70326-11-CJ3	6	70379	8	70440-C3	8	70551-C3	8	70572-C3	8
70168-PC	6	70208-Z3	7	70267-02-C3	7	70295	8	70326-11-J3	6	70379-C3	8	70440-Z3	8	70551-Z3	8	70572-Z3	8
70168-Z3	7	70246	7	70267-02-Z3	7	70295-C3	8	70326-CJ3	6	70379-PC	6	70441	8	70552	8	70573	8
70186-06-J3-SE	6	70246-C3	7	70267-03	7	70295-Z3	8	70326-J3	6	70379-Z3	8	70441-C3	8	70552-C3	8	70573-C3	8
70186-08-J3-SE	6	70246-Z3	7	70267-03-C3	7	70296	8	70327-14-J3	6	70380	8	70441-Z3	8	70552-Z3	8	70573-Z3	8
70186-10-J3-SE	6	70247	7	70267-03-Z3	7	70296-C3	8	70328-15-J3	6	70380-C3	8	70442	8	70556-02	8	70574	8
70186-11-J3-SE	6	70247-C3	7	70267-04	7	70296-Z3	8	70328-17-J3	6	70380-PC	6	70442-C3	8	70556-02-C3	8	70574-C3	8
70186-14-J3-SE	6	70247-Z3	7	70267-04-C3	7	70297	8	70330	8	70380-Z3	8	70442-Z3	8	70556-02-Z3	8	70574-Z3	8
70186-15-J3-SE	6	70248	7	70267-04-Z3	7	70297-C3	8	70330-C3	8	70381	8	70443	8	70556-03	8	70582	8
70186-17-J3-SE	6	70248-C3	7	70267-05	7	70297-Z3	8	70330-Z3	8	70381-C3	8	70443-C3	8	70556-03-C3	8	70582-C3	8
70190-02	7	70248-Z3	7	70267-05-C3	7	70298	8	70331	8	70381-PC	6	70443-Z3	8	70556-03-Z3	8	70582-Z3	8
70190-02-C3	7	70249	7	70267-05-Z3	7	70298-C3	8	70331-C3	8	70381-Z3	8	70444	8	70556-04	8	70584	8
70190-02-Z3	7	70249-C3	7	70267-06	7	70298-CJ3	6	70331-Z3	8	70382	8	70444-C3	8	70556-04-C3	8	70584-C3	8
70190-03	7	70249-Z3	7	70267-06-C3	7	70298-J3	6	70332	8	70382-C3	8	70444-Z3	8	70556-04-Z3	8	70584-Z3	8
70190-03-C3	7	70250	7	70267-06-Z3	7	70298-Z3	8	70332-C3	8	70382-CJ3	6	70522	8	70556-05	8	70585	8
70190-03-Z3	7	70250-C3	7	70267-07	7	70299	8	70332-Z3	8	70382-J3	6	70522-C3	8	70556-05-C3	8	70585-C3	8
70190-04	7	70250-Z3	7	70267-07-C3	7	70299-C3	8	70333	8	70382-PC	6	70522-PC	6	70556-05-Z3	8	70585-Z3	8
70190-04-C3	7	70251	7	70267-07-Z3	7	70299-Z3	8	70333-C3	8	70382-Z3	8	70522-Z3	8	70556-06	8	70586	8
70190-04-Z3	7	70251-C3	7	70267-08	7	70300	8	70333-Z3	8	70383	8	70523	8	70556-06-C3	8	70586-C3	8
70190-05	7	70251-Z3	7	70267-08-C3	7	70300-C3	8	70334	8	70383-C3	8	70523-C3	8	70556-06-Z3	8	70586-Z3	8
70190-05-C3	7	70252	7	70267-08-Z3	7	70300-CJ3	6	70334-C3	8	70383-PC	6	70523-PC	6	70556-07	8	70587	8
70190-05-Z3	7	70252-C3	7	70268-02	8	70300-J3	6	70334-Z3	8	70383-Z3	8	70523-PC	6	70556-07-C3	8	70587-C3	8
70190-06	7	70252-Z3	7	70268-02-C3	8	70300-Z3	8	70335	8	70384	8			70556-07-Z3	8	70587-Z3	8
		70258	7	70268-02-Z3	8	70302-CJ3	6	70335-C3	8	70384-C3	8					70588	8
		70258-C3	7	70268-03	8	70302-J3	6	70335-Z3	8	70384-CJ3	6					70588-C3	8
		70258-Z3	7	70268-03-C3	8			70336	8	70384-J3	6					70588-Z3	8
		70259	7	70268-03-Z3	8			70336-C3	8							70589	8
		70259-C3	7	70268-04	8			70336-Z3	8							70589-C3	8

ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.
70589-Z3	8	70738-C3	9	70789-C3	9	70829	9	70994-PC	6	710730-06-C3	9	71209-C3	9	72313	10	73136	30
70642	8	70738-PC	6	70789-Z3	9	70829-C3	9	70994-Z3	9	710730-06-Z3	9	71209-Z3	9	72314	10	73137	30
70642-C3	8	70738-Z3	9	70790	9	70829-Z3	9	70995	9	710730-07	9	71210	9	72392	10	73138	30
70642-PC	6	70739	9	70790-C3	9	70830	9	70995-C3	9	710730-07-C3	9	71210-C3	9	72393	10	73139	30
70642-Z3	8	70739-C3	9	70790-Z3	9	70830-C3	9	70995-PC	6	710730-07-Z3	9	71210-Z3	9	72394	10	73140	30
70643	8	70739-PC	6	70791	9	70830-Z3	9	70995-Z3	9	710730-08	9	71211	9	72395	10	73141	30
70643-C3	8	70739-Z3	9	70791-C3	9	70831	9	70996	9	710730-08-C3	9	71211-C3	9	72396	10	73143	30
70643-PC	6	70740	9	70791-Z3	9	70831-C3	9	70996-C3	9	710730-08-Z3	9	71211-Z3	9	72397	10	73144	30
70643-Z3	8	70740-C3	9	70792	9	70831-Z3	9	70996-PC	6	71080-02	9	71212	9	72398	10	73149	30
70644	8	70740-PC	6	70792-C3	9	70882	9	70996-Z3	9	71080-02-C3	9	71212-C3	9	72399	10	73150	30
70644-C3	8	70740-Z3	9	70792-Z3	9	70882-C3	9	71026	9	71080-02-Z3	9	71212-Z3	9	72400	10	73151	30
70644-PC	6	70741	9	70793	9	70882-Z3	9	71026-C3	9	71080-03	9	72141	10	72401	10	73152	30
70644-Z3	8	70741-C3	9	70793-C3	9	70883	9	71026-Z3	9	71080-03-C3	9	72142	10	72402	10	73153	30
70645	8	70741-PC	6	70793-Z3	9	70883-C3	9	71027	9	71080-03-Z3	9	72143	10	72437	10	73154	30
70645-C3	8	70741-Z3	9	70794	9	70883-Z3	9	71027-C3	9	71080-04	9	72144	10	72438	10	73155	30
70645-PC	6	70742	9	70794-04	9	70884	9	71027-Z3	9	71080-04-C3	9	72145	10	72439	10	73156	30
70645-Z3	8	70742-C3	9	70794-04-C3	9	70884-C3	9	71028	9	71080-04-Z3	9	72146	10	72440	10	73158	30
70646	8	70742-PC	6	70794-04-Z3	9	70884-Z3	9	71028-C3	9	71080-05	9	72147	10	72441	10	73159	30
70646-C3	8	70742-Z3	9	70794-C3	9	70885	9	71028-Z3	9	71080-05-C3	9	72148	10	72442	10	73164	30
70646-CJ3	6	70743	9	70794-Z3	9	70885-C3	9	71029	9	71080-05-Z3	9	72149	10	72443	10	73165	30
70646-J3	6	70743-C3	9	70795	9	70885-Z3	9	71029-C3	9	71080-06	9	72150	10	72443-08	10	73166	30
70646-PC	6	70743-PC	6	70795-C3	9	70886	9	71029-Z3	9	71080-06-C3	9	72151	10	72444	10	73167	30
70646-Z3	8	70743-Z3	9	70795-Z3	9	70886-C3	9	71030	9	71080-06-Z3	9	72152	10	72445	10	73168	30
70647	8	70744	9	70796-06	9	70886-CJ3	6	71030-C3	9	71080-07	9	72153	10	72446	10	73169	30
70647-C3	8	70744-C3	9	70796-06-C3	9	70886-J3	6	71030-Z3	9	71080-07-C3	9	72154	10	72448	10	73170	30
70647-PC	6	70744-PC	6	70796-06-Z3	9	70886-Z3	9	71031	9	71080-07-Z3	9	72155	10	72449	10	73171	30
70647-Z3	8	70744-Z3	9	70796-07	9	70887	9	71031-C3	9	71080-08	9	72156	10	72450	10	73173	30
70648	8	70762	9	70796-07-C3	9	70887-C3	9	71031-Z3	9	71080-08-C3	9	72157	10	72451	10	73174	30
70648-C3	8	70762-C3	9	70796-07-Z3	9	70887-Z3	9	71032	9	71080-08-Z3	9	72158	10	72452	10	73193	30
70648-CJ3	6	70762-PC	6	70796-08	9	70888	9	71032-C3	9	71086	9	72159	10	72453	10	73194	30
70648-J3	6	70762-Z3	9	70796-08-C3	9	70888-C3	6	71032-Z3	9	71086-C3	9	72160	10	72454	10	73195	30
70648-PC	6	70763	9	70796-08-Z3	9	70888-CJ3	6	71036-02	9	71086-Z3	9	72161	10	72455	10	73461	30
70648-Z3	8	70763-C3	9	70802	9	70888-J3	6	71036-02-C3	9	71087	9	72162	10	72456	10	73462	30
70650-CJ3	6	70763-PC	6	70802-C3	9	70888-Z3	9	71036-02-Z3	9	71087-C3	9	72229	10	72457	10	73463	30
70650-J3	6	70763-Z3	9	70802-Z3	9	70890-CJ3	6	71036-03	9	71087-Z3	9	72230	10	72458	10	73464	30
706501-CJ3	6	70764	9	70803	9	70890-J3	6	71036-03-C3	9	71088	9	72231	10	73034	30	73465	30
706501-J3	6	70764-C3	9	70803-C3	9	708901-CJ3	6	71036-03-Z3	9	71088-C3	9	72232	10	73035	30	73466	30
70652-J3	6	70764-PC	6	70803-Z3	9	708901-J3	6	71036-04	9	71088-Z3	9	72233	10	73036	30	73467	30
70653-J3	6	70764-Z3	9	70804	9	70893-J3	6	71036-04-C3	9	71089	9	72234	10	73037	30	73469	30
70655-17-J3	6	70765	9	70804-C3	9	70894-J3	6	71036-04-Z3	9	71089-C3	9	72235	10	73038	30	73471	30
70690	9	70765-C3	9	70804-Z3	9	70896-J3	6	71036-05	9	71089-Z3	9	72236	10	73039	30	73479	30
70690-C3	9	70765-PC	6	70805	9	70990	9	71036-05-C3	9	71090	9	72237	10	73040	30	73480	30
70690-Z3	9	70765-Z3	9	70805-C3	9	70990-C3	9	71036-05-Z3	9	71090-C3	9	72238	10	73041	30	73481	30
70691	9	70766	9	70805-Z3	9	70990-PC	6	71037	9	71090-Z3	9	72239	10	73043	30	73482	30
70691-C3	9	70766-C3	9	70806	9	70990-Z3	9	71037-C3	9	71091	9	72281	10	73049	30	73483	30
70691-Z3	9	70766-PC	6	70806-C3	9	70991	9	71037-Z3	9	71091-C3	9	72282	10	73050	30	73484	30
70692	9	70766-Z3	9	70806-Z3	9	70991-C3	9	71038	9	71091-Z3	9	72283	10	73051	30	73485	30
70692-C3	9	70767	9	70807	9	70991-PC	6	71038-C3	9	71092	9	72284	10	73052	30	73487	30
70692-Z3	9	70767-C3	9	70807-C3	9	70991-Z3	9	71038-Z3	9	71092-C3	9	72285	10	73053	30	73489	30
70693	9	70767-PC	6	70807-Z3	9	70992	9	71039	9	71092-Z3	9	72286	10	73054	30	73524	30
70693-C3	9	70767-Z3	9	70808	9	70992-C3	9	71039-C3	9	71206	9	72287	10	73055	30	73525	30
70693-Z3	9	70768	9	70808-C3	9	70992-PC	6	71039-Z3	9	71206-C3	9	72288	10	73056	30	73526	30
70694	9	70768-C3	9	70808-Z3	9	70992-Z3	9	710730-02	9	71206-Z3	9	72289	10	73058	30	73527	30
70694-C3	9	70768-PC	6	70825	9	70993	9	710730-02-C3	9	71207	9	72290	10	73064	30	73528	30
70694-Z3	9	70768-Z3	9	70825-C3	9	70993-C3	9	710730-02-Z3	9	71207-C3	9	72291	10	73065	30	73529	30
70695	9	70786	9	70825-Z3	9	70993-PC	6	710730-03	9	71207-Z3	9	72304	10	73066	30	73530	30
70695-C3	9	70786-C3	9	70826	9	70993	9	710730-03-C3	9	71208	9	72305	10	73067	30	73532	30
70695-Z3	9	70786-Z3	9	70826-C3	9	70993-C3	9	710730-03-Z3	9	71208-C3	9	72306	10	73068	30	73534	30
70696	9	70787	9	70826-Z3	9	70993-PC	6	710730-04	9	71208-Z3	9	72307	10	73069	30		
70696-C3	9	70787-C3	9	70827	9	70993-Z3	9	710730-04-C3	9	71209	9	72308	10	73070	30		
70696-Z3	9	70787-Z3	9	70827-C3	9	70994	9	710730-04-Z3	9			72309	10	73071	30		
70738	9	70788	9	70827-Z3	9	70994-C3	9	710730-05	9			72310	10	73073	30		
		70788-C3	9	70828	9			710730-05-C3	9			72311	10	73074	30		
		70788-Z3	9	70828-C3	9			710730-05-Z3	9			72312	10	73134	30		
		70789	9	70828-Z3	9			710730-06	9					73135	30		

ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.	ITEM NO.	PG.		
74104	29	75732	28	80115	32	80570	33	81045	33	81521	44	81950	34	82425	34	82895	34
74105	29	75733	28	80120	32	80580	33	81050	33	81522	44	81960	34	82430	34	82905	34
74106	29	75741	28	80130	32	80585	33	81060	33	81525	34	81965	34	82440	34	82910	34
74107	29	75742	28	80135	32	80595	33	81065	33	81530	34	81975	34	82445	34	82920	34
74108	29	75743	28	80145	32	80600	33	81075	33	81540	34	81980	34	82455	34	82923	33
74109	29	76321	29	80150	32	80610	33	81080	33	81545	34	81990	34	82460	34	82933	33
74110	29	76322	29	80160	32	80615	33	81090	33	81555	34	81995	34	82470	34	82925	34
74111	29	76324	29	80165	32	80625	33	81095	33	81560	34	82005	34	82475	34	82935	34
74112	29	76333	29	80175	32	80630	33	81101	44	81570	34	82010	34	82485	34	82940	34
74113	29	76334	29	80180	32	80640	33	81102	44	81575	34	82020	34	82490	34	87721	31
74114	29	76336	29	80190	32	80645	33	81105	33	81585	34	82025	34	82500	34	87722	31
74115	29	76621	29	80195	32	80655	33	81110	33	81590	34	82035	34	82505	34	87725	31
74116	29	76622	29	80205	32	80660	33	81120	33	81600	34	82040	34	82515	34	87725-C3	31
74117	29	76624	29	80210	32	80670	33	81125	33	81605	34	82050	34	82520	34	87726	31
74118	29	76762	29	80220	32	80675	33	81135	33	81615	34	82055	34	82530	34	87726-C3	31
74119	29	76764	29	80225	32	80685	33	81140	33	81620	34	82065	34	82535	34	87738	31
74121	29	76765	29	80235	32	80690	33	81150	33	81630	34	82070	34	82545	34	87742	31
74122	29	76766	29	80240	32	80700	33	81155	33	81635	34	82080	34	82550	34	87742-C3	31
74123	29	76768	29	80250	32	80705	33	81165	33	81645	34	82085	34	82560	34	87743	31
74124	29	76777	29	80255	32	80715	33	81170	33	81650	34	82095	34	82565	34	87743-C3	31
74125	29	76778	29	80265	32	80720	33	81180	33	81660	34	82100	34	82575	34	87770	31
74126	29	76780	29	80270	32	80730	33	81185	33	81665	34	82110	34	82580	34	87770-27	31
74128	29	77124	29	80280	32	80735	33	81195	33	81675	34	82115	34	82590	34	87770-C3	31
74128-N	29	77125	29	80285	32	80745	33	81200	33	81680	34	82125	34	82595	34	87770-C3-27	31
74129	29	77126	29	80295	32	80750	33	81210	33	81690	34	82130	34	82605	34	87781	31
74129-N	29	77128	29	80300	32	80760	33	81215	33	81695	34	82140	34	82610	34	87781-27	31
74130	29	77134	29	80310	32	80765	33	81225	33	81705	34	82145	34	82620	34	87781-C3	31
74131	29	77136	29	80315	32	80775	33	81230	33	81710	34	82155	34	82625	34	87781-C3-27	31
74131-N	29	77137	29	80325	32	80780	33	81240	33	81716	44	82160	34	82635	34	88103	32
74133	29	77138	29	80330	32	80790	33	81245	33	81717	44	82170	34	82640	34	88103-5	32
74133-N	29	77140	29	80340	32	80795	33	81255	33	81720	34	82175	34	82646	44	88106	32
74134	29	77410	29	80345	32	80805	33	81260	33	81725	34	82185	34	82647	44	88106-5	32
74135	29	77412	29	80355	32	80810	33	81270	34	81735	34	82190	34	82650	34	88115	32
74135-N	29	77413	29	80360	32	80820	33	81275	34	81740	34	82200	34	82655	34	88115-5	32
74135-1	29	77414	29	80370	32	80825	33	81285	34	81746	44	82205	34	82665	34	88118	32
74135-1-N	29	77416	29	80375	32	80835	33	81290	34	81747	44	82215	34	82670	34	88118-5	32
74135-2	29	77422	29	80385	32	80840	33	81300	34	81750	34	82220	34	82680	34	88150	45
74135-2-N	29	77424	29	80390	32	80850	33	81315	34	81755	34	82230	34	82685	34	88151	45
74136	29	77425	29	80400	32	80855	33	81320	34	81765	34	82235	34	82695	34	88153	45
74136-N	29	77426	29	80405	32	80865	33	81330	34	81770	34	82245	34	82700	34	88154	45
74137	29	77428	29	80415	33	80870	33	81335	34	81780	34	82250	34	82710	34	88156	45
74137-N	29	77434	29	80420	33	80880	33	81345	34	81785	34	82260	34	82715	34	88157	45
74138	29	77436	29	80430	33	80885	33	81350	34	81795	34	82265	34	82725	34	88160	45
74138-N	29	77437	29	80435	33	80895	33	81360	34	81800	34	82275	34	82730	34	88161	45
74139	29	77438	29	80445	33	80900	33	81365	34	81810	34	82280	34	82740	34	88163	45
74139-N	29	77440	29	80450	33	80910	33	81375	34	81815	34	82290	34	82745	34	88164	45
74140	29			80460	33	80915	33	81380	34	81825	34	82295	34	82755	34	88166	45
74172	29	78302 - 78610	22	80465	33	80925	33	81390	34	81830	34	82305	34	82760	34	88167	45
74173	29			80475	33	80930	33	81395	34	81840	34	82310	34	82770	34	88250	45
74174	29	80010	32	80480	33	80940	33	81405	34	81845	34	82320	34	82775	34	88251	45
74175	29	80015	32	80490	33	80945	33	81410	34	81855	34	82325	34	82785	34	88252	45
74176	29	80025	32	80495	33	80955	33	81420	34	81860	34	82335	34	82790	34	88260	45
74177	29	80030	32	80505	33	80960	33	81425	34	81870	34	82340	34	82800	34	88261	45
74180	29	80040	32	80510	33	80970	33	81435	34	81875	34	82350	34	82805	34	88262	45
74181	29	80045	32	80520	33	80975	33	81440	34	81885	34	82355	34	82815	34		
75701	28	80055	32	80525	33	80985	33	81450	34	81890	34	82356	44	82820	34		
75702	28	80060	32	80531	44	80990	33	81455	34	81900	34	82357	44	82830	34		
75703	28	80070	32	80532	44	81000	33	81465	34	81901	44	82365	34	82835	34		
75711	28	80075	32	80535	33	81005	33	81470	34	81902	44	82370	34	82845	34		
75712	28	80085	32	80540	33	81015	33	81480	34	81905	34	82380	34	82850	34		
75713	28	80090	32	80550	33	81020	33	81485	34	81915	34	82385	34	82860	34		
75721	28	80100	32	80555	33	81030	33	81495	34	81920	34	82395	34	82865	34		
75722	28	80105		80565	33	81035	33	81500	34	81930	34	82400	34	82875	34		
75723	28							81510	34	81935	34	82410	34	82880	34		
75731	28							81515	34	81945	34	82415	34	82890	34		



Firestorm Ceramics

Firestorm products feature a long lasting self-sharpening ceramic grain. They cut faster & last longer than any other type of grain. All of our Firestorm products have a "top sized" grinding aid which reduces grinding temperatures and also helps reduce loading.

Firestorm II is now available on belts, quick lock discs and fiber discs.

Our "Original Firestorm" material is available in the following products: Belts, Quick-Lock Discs, Resin Fiber Discs, Flap Discs, Mini Flap Discs, Cartridge Rolls, Square Pads, Cross Pads, PSA Discs, No-Lap Bands.

Mean Green Grinding Wheels

Works great on scale!

High performance grain (proprietary blend of Premium Grains) and unique bond offers: long life, extremely fast cut rate, less chatter, runs smoother and provides the operator with more control than conventional grinding wheels. Works great on virtually ALL METALS - INCLUDING ALUMINUM!!



937.332.8855

www.preferredabrasives.com

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!



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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:

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