

FLAP DISCS



GRIND AND FINISH IN ONE STEP

Get the most demanding grinding and finishing jobs done right and done fast.



SELECTING THE RIGHT FLAP DISC

Weiler's abrasive flap discs grind and finish in one step, saving you time and money. There's no switching from a type 27 grinding wheel to a resin fiber disc.



P MAX PERFORMANCE



TIGER® CERAMIC

- **TOP COAT** for cool grinding
- Protects from heat discoloration
- Prevents loading on soft alloys

GRAIN TYPE

Ceramic alumina

CONTAMINANT FREE

CONTAIN LESS THAN 0.1% IRON, SULFUR & CHLORINE

STYLES



BEST ON

STEEL / METAL **ALUMINUM**
STAINLESS **HARD-TO-GRIND**

(Hard-to-grind metals include tool steel, inconel, high nickel alloy, titanium and armored steel)

P HIGH PERFORMANCE



TIGER X

- **FLAT SURFACE GRINDING**
- Less effort required
- Fast grinding & long life

GRAIN TYPE

Ceramic & zirconia alumina

CONTAMINANT FREE

CONTAIN LESS THAN 0.1% IRON, SULFUR & CHLORINE

STYLES



*Big Cat

BEST ON

STEEL / METAL **STAINLESS**

(Metal includes structural steel and cast iron)

P PERFORMANCE



TIGER PAW™

- **SUPERIOR EDGE GRINDING**
- Aggressive stock removal

GRAIN TYPE

100% zirconia alumina

CONTAMINANT FREE

CONTAIN LESS THAN 0.1% IRON, SULFUR & CHLORINE

STYLES



BEST ON

STEEL / METAL **STAINLESS**

(Metal includes structural steel and cast iron)

V VALUE



WOLVERINE®

- Fast stock removal
- Consistent performance

GRAIN TYPE

Zirconia alumina

STYLES



BEST ON

STEEL / METAL

*Big Cat is a zirconia alumina flap disc and does not contain any ceramic alumina.

SPECIALTY FLAP DISCS



		MAX PERFORMANCE	HIGH PERFORMANCE	PERFORMANCE
ANGLED (Fillet Welds)		✓	✓	
TRIMMABLE (Non-Marking)		✓	✓	
ALUMINUM BACK (Rigid Support)			✓	
ALUMINUM (Non-Loading)			✓	
MINI (Tight Spaces)				✓ (Bobcat)

Refer to ANSI B7.1 for storage & handling details

KEY: ✓ PERFORMANCE LINE ✓ VALUE LINE

All products meet ANSI B7.1

STYLE

CONICAL (Type 29)
15° – 35°



Angled flaps maximize surface contact for aggressive stock removal on flat surfaces.

FLAT (Type 27)
0° – 15°



Smooth grinding, blending and finishing on flat surfaces and slight contours.

HIGH DENSITY (Type 27)
0° – 15°



Conformable to irregular surfaces. Smooth grinding, blending and finishing on flat surfaces.

HIGH DENSITY (Type 29)
15° – 35°



Conformable to irregular surfaces. Aggressive stock removal, edge beveling and chamfering.

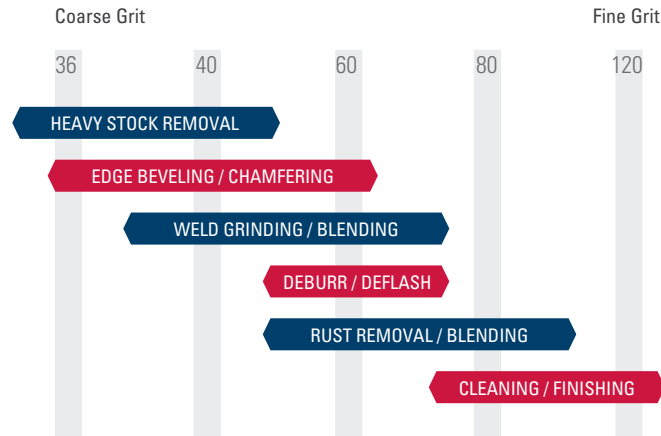
ANGLED (Type 27 / Hybrid)
0° – 35°



Curved flaps for grinding fillet welds, T-joints and hard-to-reach areas.

GRIT

* for grit recommendations for aluminum see page 8.



GRAIN



CERAMIC ALUMINA (CA)

- Self-sharpening micro fracturing crystals expose sharp edges
- Maintains a high cut-rate for the life of the grain
- Longest cutting life under moderate to high pressure
- Exceptional performance on hard-to-grind metals



ZIRCONIA ALUMINA (ZA)

- Self-sharpening crystals
- Holds up under high temperatures and extreme pressure
- Sharp, fast cutting, long lasting grain

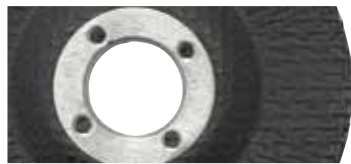


ALUMINUM OXIDE (AO)

- Single crystal that dulls during use
- Good initial cut rate
- Hard, durable grain

BACKING

PHENOLIC



Prevents backing from scratching the workpiece.

ALUMINUM



Rigid support for maximum aggression; recyclable.

COMPOSITE*



Trimable, non-marking backing; allows access to hard-to-reach areas.

*BobCat™ Discs are not trimmable.

ARBOR

5/8" - 11 NUT

- Quick change over
- Eliminates cross-threading experienced with plastic backs
- Metal nut eliminates the disc from sticking to the grinder due to heat build up



OPEN ARBOR

- Requires adapting nuts
- 5/8" option for 4" grinders
- 7/8" option for 4-1/2" and larger grinders



MOUNTING DISCS WITH OPEN ARBORS



MANDRELS & METAL HUB PADS

- For quick-change on tools with 1/4" collets





Grinding & blending a weld between two steel plates.

STANDARD DENSITY FLAP DISCS



MADE IN
USA
WITH GLOBAL
MATERIALS



Weiler's Tiger discs are engineered to maximize productivity and minimize operating costs for professionals who demand more. Get the right flap disc for your application and **get more done with Tiger**.



50106

P MAX PERFORMANCE / TIGER® CERAMIC (SABER TOOTH)

Top Coated for Cool Grinding / Ceramic Alumina / Phenolic Back

STEEL / METAL	STAINLESS	HARD-TO-GROUND	ALUMINUM	TYPE 29 7/8" Arbor		TYPE 29 5/8"-11 Hub	
				Item #	Item #	Item #	Item #
4-1/2"				50100	50104*		50104*
				50101	50105*		50105*
				50102	50106*		50106*
				50103	50107*		50107*
5"				50538 •	—		—
				50539 •	—		—
				50540 •	—		—
				50108	50112*		50112*
7"				50109	50113*		50113*
				50110	50114*		50114*
				50111	50115*		50115*



51205

P HIGH PERFORMANCE / TIGER X

Fast Grinding & Long Life on Flat Surfaces / Ceramic & Zirconia Alumina / Phenolic Back

STEEL / METAL	STAINLESS	TYPE 29 7/8" Arbor		TYPE 29 5/8"-11 Hub		TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
		Item #	Item #	Item #	Item #	Item #	Item #	Item #	Item #
4-1/2"		51200	51204*		51204*		51223		51226*
		51201	51205*		51205*		51224		51227*
		51202	51206*		51206*		51225		51228*
		51203	51207*		51207*				
5"		51208	—		51212*		—		—
		51209	51212*		51213*		—		—
		51210	51213*		51214*		—		—
		51211	51214*				—		—
6"		51237	51241*		51241*		—		—
		51238	51242*		51242*		—		—
		51239 •	51243* •		51243* •		—		—
							—		—
7"		51215	51219*		51219*		51229		51232*
		51216	51220*		51220*		51230		51233*
		51217	51221*		51221*		51231		51234*
		51218	51222*		51222*				



Industry First

X3

Technology

grain anchoring system,
dual flap design,
& engineered backing.



Ceramic alumina and
zirconia alumina grain mix

**Grinds Faster and
Lasts Longer.**



Beveling pipe on edge with a Tiger Paw flap disc.

P PERFORMANCE / TIGER PAW™

Aggressive Stock Removal for Edge Grinding / 100% Zirconia Alumina / Phenolic Back

STEEL / METAL		STAINLESS		TYPE 29 5/8" Arbor	TYPE 29 7/8" Arbor	TYPE 29 5/8"-11 Hub	TYPE 27 5/8" Arbor	TYPE 27 7/8" Arbor	TYPE 27 5/8"-11 Hub
Dia.	Grit	Max. RPM	Std. Pack	Item #	Item #	Item #	Item #	Item #	Item #
4"	40	15,000	10	51104	—	—	51101	—	—
	60			51105	—	—	51102	—	—
4-1/2"	36	13,000	10	—	51118	51123*	—	51107	51112*
	40			—	51119	51124*	—	51108	51113*
	60			—	51120	51125*	—	51109	51114*
	80			—	51121	51126*	—	51110	51115*
5"	36	12,000	10	—	51128	51153*	—	51182	51155*
	40			—	51129	51132*	—	51134	51156*
	60			—	51130	51133*	—	51135	51157*
	80			—	51131	51154*	—	51183	51158*
6"	40	10,200	10	—	51175	51179*	—	—	—
	60			—	51176	51180*	—	—	—
	80			—	51177 •	51181* •	—	—	—
7"	36	8,600	10	—	—	51149*	—	—	51139*
	40			—	51145	51146*	—	51137	51140*
	60			—	51150	51147*	—	51138	51142*
	80			—	—	51148*	—	—	51143*



51126

V WOLVERINE®

Consistent Performance / Zirconia Alumina / Phenolic Back

STEEL / METAL				TYPE 29 5/8" Arbor	TYPE 29 7/8" Arbor	TYPE 29 5/8"-11 Hub	TYPE 27 7/8" Arbor	TYPE 27 5/8"-11 Hub
Dia.	Grit	Max. RPM	Std. Pack	Item #	Item #	Item #	Item #	Item #
4"	36	15,000	10	31337	—	—	—	—
	40			31338	—	—	—	—
	60			31339	—	—	—	—
	80			31340	—	—	—	—
4-1/2"	36	13,000	10	—	31343	31349*	31401	31407*
	40			—	31344	31350*	31402	31408*
	60			—	31345	31351*	31403	31409*
	80			—	31346	31352*	31404	31410*
	120			—	31347	31353*	—	—
5"	36	12,000	10	—	31355	—	—	—
	40			—	31356	—	—	—
	60			—	31357	—	—	—
	80			—	31358	—	—	—
6"	40	10,200	10	—	31447 •	31451* •	—	—
	60			—	31448 •	31452* •	—	—
	80			—	31449 •	31453* •	—	—
7"	36	8,600	10	—	31361	31367*	—	31419*
	40			—	31362	31368*	31414	31420*
	60			—	31363	31369*	31415	31421*
	80			—	31364	31370*	—	31422*



31343

Key:

P PERFORMANCE LINE Industrial Grade **V** VALUE LINE Professional Grade

• Non-stock product, contact Customer Service for lead times

*Patent # 6,945,863 B1



Blending and finishing a weld with a Big Cat flap disc.

HIGH DENSITY FLAP DISCS



High density flap discs last up to 40% longer than standard density. They are ideal for grinding and blending uneven or irregular surfaces.

MADE IN
USA
WITH GLOBAL
MATERIALS



50134

P **MAX PERFORMANCE / TIGER® CERAMIC HD (SABER TOOTH)**
Top Coated for Cool Grinding on Irregular Surfaces / Ceramic Alumina / Phenolic Back

STEEL / METAL **STAINLESS** **HARD-TO-GRIND** **ALUMINUM**

TYPE 27
7/8" Arbor

TYPE 27
5/8"-11 Hub

Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #
4-1/2"	40	12,000	10	50130	50133*
	60			50131	50134*
	80			50132	50135*
7"	40	8,600	10	50136	50139*
	60			50137	50140*
	80			50138	50141*



50804

P **HIGH PERFORMANCE / TIGER BIG CAT® HD**
Fast Grinding & Long Life on Irregular Surfaces / Zirconia Alumina / Phenolic Back

STEEL / METAL **STAINLESS**

TYPE 27
7/8" Arbor

TYPE 27
5/8"-11 Hub

Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #
4-1/2"	40	12,000	10	50803	50808*
	60			50804	50809*
	80			50805	50810*
	120			50806	—
7"	40	8,600	10	50823	50843*
	60			50824	50844*
	80			50825	50845*
	120			—	50846*

25MM WIDE FLAPS
INDUSTRY STANDARD

30MM WIDE FLAPS
BIG CAT & TIGER PAW HD

INDUSTRY-LEADING FOOTPRINT

30mm flaps on Big Cat and Tiger Paw Type 27 style flap discs increases surface area grinding



"I have been in the business for 20+ years and I find Weiler to be the best I have ever used."

- **Andy Bettelli**, Pipeline Contractor, A B Welding



P PERFORMANCE / TIGER PAW™ HD

Aggressive Stock Removal on Irregular Surfaces
100% Zirconia Alumina / Phenolic Back

STEEL / METAL **STAINLESS**

Diameter	Grit	Max. RPM	Std. Pack	TYPE 29 7/8" Arbor		TYPE 27 5/8"-11 Hub		TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
				Item #		Item #		Item #		Item #	
4-1/2"	36	12,000	10	51060	•	51064*	•	51160		51164*	
	40			51061		51065*		51161		51165*	
	60			51062	•	51066*	•	51162		51166*	
	80			51063	•	51067*	•	51163		51167*	
5"	40	12,000	10	—		—		51195	•	—	
	60			—		—		51196	•	—	
	80			—		—		51197	•	—	
6"	40	10,200	10	—		—		51199	•	51187	•
	60			—		—		51184	•	51188	•
	80			—		—		51185	•	51189	•
7"	40	8,600	10	—		—		51170		51168*	
	60			—		—		51171		51169*	



51165



31388

V WOLVERINE® HD

Consistent Performance on Irregular Surfaces / Zirconia Alumina / Phenolic Back

STEEL / METAL

Diameter	Grit	Max. RPM	Std. Pack	TYPE 27 7/8" Arbor		TYPE 27 5/8"-11 Hub	
				Item #		Item #	
4-1/2"	40	12,000	10	31387		31390*	
	60			31388		31391*	
	80			31389		31392*	
6"	40	10,200	10	31439	•	31443*	•
	60			31440	•	31444*	•
	80			31441	•	31445*	•

ACCESSORIES

ADAPTING NUTS & SPANNER WRENCH

For use with standard, HD and specialty flap discs.

Description	Thread Size	For Use With	Std. Pack	Item #
Adapting Nuts	3/8" - 24	4" flap disc with 5/8" arbor hole (can be used with an adjustable or combination wrench)	1 Pair	56484
Adapting Nuts	5/8" - 11	4-1/2", 5" & 7" flap discs with 7/8" arbor hole	1 Pair	56494
Spanner Wrench	—	Item No. 56494 only	1	56495

When mounting, adapters must be nested, see illustration at right.



Key:

P PERFORMANCE LINE Industrial Grade **V** VALUE LINE Professional Grade

• Non-stock product, contact Customer Service for lead times

*Patent # 6,945,863 B1



Edge chamfering a section of pipe with a Tiger Aluminum Back flap disc.

SPECIALTY FLAP DISCS



MADE IN
USA
WITH GLOBAL
MATERIALS

ALUMINUM BACK

Tiger Aluminum Back flap discs are the benchmark for the pipeline industry, providing rigid support for maximum aggression. These wheels are ideal for removing heavy pitting and resists rolling the bevel ends prior to welding. The aluminum backing also prevents the disc from catching on the bevel when grinding. The aluminum backing plate is 100% recyclable.

P **HIGH PERFORMANCE / TIGER® ALUMINUM BACK**
Fast Grinding & Long Life / Zirconia Alumina / Backing Plate Provides Rigid Support

				TYPE 29		
				5/8" Arbor	7/8" Arbor	5/8"-11 Hub
STEEL / METAL	STAINLESS					
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #	Item #
4"	36	15,000	10	50502	—	—
	40			50503	—	—
	60			50504	—	—
	80			50505	—	—
	120			50506	—	—
4-1/2"	24	13,000	10	—	50511	50510
	36			—	50512	50517
	40			—	50513	50518
	60			—	50514	50519
	80			—	50515	50520
5"	120	12,000	10	—	50516	50509
	36			—	50522	—
	40			—	50523	—
	60			—	50524	—
	80			—	50525	—
7"	120	8,600	10	—	50526	—
	24			—	—	50541
	36			—	50532	50542
	40			—	50533	50543
	60			—	50534	50544
	80			—	—	50545
	120			—	—	50546

FOR ALUMINUM

Tiger Aluminum flap discs offer an innovative paired flap design that delivers high performance grinding on aluminum. The top flaps are coated to eliminate loading and allow the disc to maintain a high cut-rate, while the alternating flaps aggressively remove material with self-sharpening zirconia aluminum grains. This unique paired flap design delivers the ultimate combination of high performance grinding for aluminum at an exceptional value.

Coarse
36 Grit

Ideal for chamfering,
beveling, weld
removal and stock
removal

Fine
60 Grit

Ideal for weld
blending, finishing and
cosmetic detail work

HIGH PERFORMANCE / TIGER® ALUMINUM

Non-Loading / Contaminant-free / Zirconia Alumina / Phenolic Back

ALUMINUM				TYPE 27		TYPE 29	
				7/8" Arbor	5/8"-11 Hub	7/8" Arbor	5/8"-11 Hub
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #	Item #	Item #
4-1/2"	36	13,000	10	51252	51256	51250	51254
	60			51253	51257	51251	51255

PAIRED FLAP DESIGN

Delivers High Performance Grinding
on Aluminum

SELF SHARPENING

Zirconia Alumina Grains Deliver Aggressive Grinding

COATED FLAPS

Eliminate Loading



ANGLED DISCS

The 90° angled flap design is ideal for grinding fillet welds, T-joints and other hard-to-reach places. The flaps wrap around the edge of the backing plate, optimizing flap-to-metal contact and providing exceptional feel and control while grinding.



Blending fillet welds to ensure proper penetration prior to inspection.

P MAX PERFORMANCE / TIGER® CERAMIC ANGLED

Top Coated for Cool Grinding on Fillet Welds / Ceramic Alumina / Phenolic Back

STEEL / METAL		STAINLESS	HARD-TO-GRIND	ALUMINUM	7/8" Arbor		5/8"-11 Hub	
Diameter	Grit			Max. RPM	Std. Pack	Item #	Item #	
4-1/2"	40			13,000	10	51312	51315	
	60					51313	51316	
	80					51314	51317	
5"	40			12,000	10	51318	51321	
	60					51319	51322	
	80					51320	51323	



51315

P HIGH PERFORMANCE / TIGER ANGLED

Fast Grinding & Long Life on Fillet Welds / Zirconia Alumina / Phenolic Back

STEEL / METAL		STAINLESS				7/8" Arbor		5/8"-11 Hub	
Diameter	Grit			Max. RPM	Std. Pack	Item #	Item #	Item #	Item #
4-1/2"	40			13,000	10	51300	51303		
	60					51301	51304		
	80					51302	51305		
5"	40			12,000	10	51306	51309		
	60					51307	51310		
	80					51308	51311		



51303

SMOOTH FINISH

when grinding fillet welds & T-joints

FLEXIBILITY OF APPROACH

flap design allows you to grind from a wider range of angles

MORE GRIT OPTIONS

gives you the finish and aggression you want

ATTACKS METAL

removing more material in less time



TOP COAT (Ceramic only) grinds cooler to protect valuable parts and prevents loading on softer alloys

SPECIALTY FLAP DISCS



MADE IN
USA
WITH GLOBAL
MATERIALS

TRIMMABLE DISCS

A trimmable backing plate allows the operator to increase flap overhang. This feature provides the versatility to adjust for hard-to-reach areas such as fillet welds and irregular shapes.



To trim backing, run against a sharp edge until desired backing diameter is achieved.



50121

P MAX PERFORMANCE / **TIGER® CERAMIC TRIM** (SABER TOOTH)

Top Coated for Cool Grinding / Ceramic Alumina / Trimmable Composite Back for Versatility

				TYPE 29 7/8" Arbor	TYPE 29 5/8"-11 Hub
STEEL / METAL	STAINLESS	HARD-TO-GRIND	ALUMINUM		
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #
4-1/2"	40	13,000	10	50117	50121*
	60			50118	50122*
	80			50119	50123*

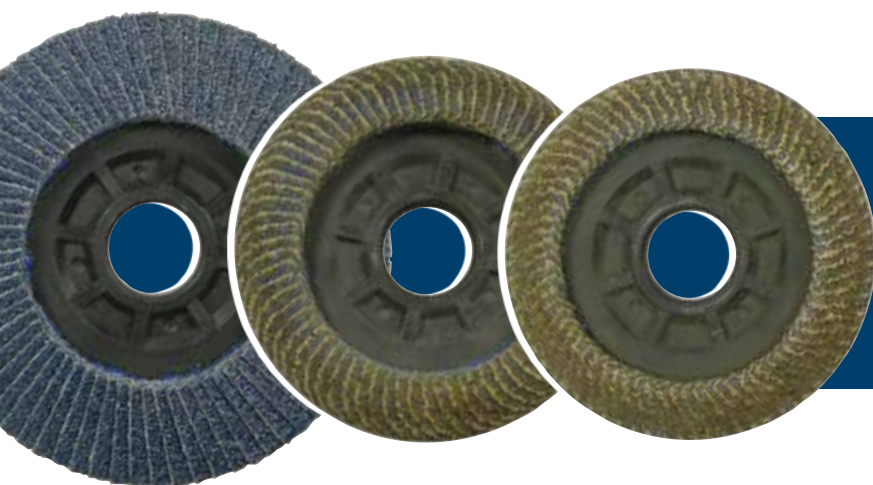


50003

P PERFORMANCE / **TIGER TRIM**

Long Grinding Life / Zirconia Alumina / Trimmable Composite Back for Versatility

Long Grinding Life / Zirconia Alumina / Trimmable Composite Back for Versatility				TYPE 29 7/8" Arbor	TYPE 29 5/8"-11 Hub
STEEL / METAL	STAINLESS				
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #
4-1/2"	40	13,000	10	50002	50006*
	60			50003	50007*
	80			50004	50008*
	120			50005	50009*
5"	40	12,000	10	50010	50014
	60			50011	50015
	80			50012	50016



A trimmed back dramatically extends disc life, allowing the operator to use the entire flap while maintaining a consistent working angle

MINI DISCS



The expanded mini flap disc line now offers a threaded button R mount in addition to the current S mount for greater versatility to fit the most popular styles of hub pads. These discs are designed for use on die grinders to provide smooth grinding and enhanced conformability in tight areas.

Weiler BobCat Mini Flap Discs are designed and compatible for use on both industry standard hub pads.



S Mount



R Mount



Edge chamfering a fabricated stainless steel component.

P PERFORMANCE / TIGER BOBCAT™

Grinding Hard-to-Reach Places
Zirconia Alumina / Composite Back

STEEL / METAL		STAINLESS		S MOUNT* TYPE 29		S MOUNT* TYPE 27		R MOUNT+ TYPE 29		R MOUNT+ TYPE 27	
Diameter	Grit	Max. RPM	Std. Pack	Item #	Item #	Item #	Item #	Item #	Item #	Item #	Item #
2"	36	30,000	10	50922	50932	50946	50956				
	40			50923	50933	50947	50957				
	60			50924	50934	50948	50958				
	80			50925	50935	50949	50959				
	120			50926	50936	50950	50960				
3"	36	20,000	10	50902	50912	50951	50961				
	40			50903	50913	50952	50962				
	60			50904	50914	50953	50963				
	80			50905	50915	50954	50964				
	120			50906	50916	50955	50965				

* Back-up pad not required if used with S mount mandrel. 3" discs are compatible with Norton Speed-Lok® TS back-up pads.

+ Back-up pad required. Also compatible with 3M Roloc™ back-up pads.



50923



50952

ACCESSORIES

BOBCAT DRIVE MANDRELS & METAL HUB PADS

For quick-change on tools with 1/4" collets.

Description	Std. Pack	Item #
2" & 3" S mount mandrel	1	07766
2" S mount hub pad + mandrel	1	60508
3" S mount hub pad + mandrel	1	60509
2" R mount hub pad + mandrel	1	51551
3" R mount hub pad + mandrel	1	51552



60508

60509



51551



07766

Key:



PERFORMANCE LINE
Industrial Grade



VALUE LINE
Professional Grade

• Non-stock product, contact Customer Service for lead times

*Patent # 6,945,863 B1



Weiler Abrasives
One Weiler Drive
Cresco, PA 18326
USA

For the full offering of Weiler products,
please refer to our Full Line Catalog or
visit our website. To discuss specific
requirements with a product specialist, call
our Applications Hotline at 888.299.2777.

