











BONDED FIELD SELECTION GUIDE



PERFORMANCE	<p>SUPERIOR LIFE & CUT MAX PERFORMANCE</p> <p>TIGER CERAMIC Self-sharpening grain, cool cutting and contaminant-free. Removes material effortlessly while a hard bond keeps working longer.</p> <p>PIPELINER Ceramic-infused wheels designed for bead and angle grinding applications on the pipeline.</p>	<p>LONG LIFE & FAST CUT HIGH PERFORMANCE</p> <p>TIGER ZIRC Self-sharpening Zirconia grain retains high cutting performance through the life of the wheel.</p> <p>TIGER INOX A contaminant-free bond that delivers a worry-free solution for stainless steel applications.</p> <p>TIGER ALUMINUM A unique blend of abrasive grains with Weiler's non-loading formula delivers a fast and consistent cut rate on aluminum. Contaminant-free.</p>	<p>LONG LIFE PERFORMANCE LINE</p> <p>TIGER Aluminum Oxide grains and a strong resin bond delivers a long cutting life keeping professionals on the job longer.</p>	<p>FAST CUT VALUE LINE</p> <p>WOLVERINE Weiler Wolverine cutting and grinding wheels deliver a fast cut rate and consistent performance at a good value.</p>		
	<p>MATERIAL</p> <p>Tool Steel, Inconel, High Nickel Alloy, Titanium and Armored Steel</p>	<p>Pipeline</p>	<p>Carbon Steel, Structural Steel and Cast Iron</p>	<p>Stainless Steel and harder Steel grades</p>	<p>Aluminum</p>	<p>Carbon Steel, Structural Steel, Cast Iron and general purpose metal use</p>

APPLICATION	When selecting a wheel, always choose the thinnest wheel that will perform the cut while maintaining desired product life.							
	<p>ULTRA THIN WHEEL 1MM</p>  <p>Sheet metal, tubes, profiles and small cross-section rods</p>	<p>THIN WHEEL .045"</p>  <p>Tubes, bar stock and large cross-sections</p>	<p>THIN WHEEL .060"</p>  <p>Angle Iron, large cross-sections</p>	<p>CUTTING WHEEL 3/32"</p>  <p>Notching</p>	<p>PIPELINE NOTCHING WHEEL 1/8"</p>  <p>Switching between cutting and grinding</p>	<p>COMBO WHEEL 1/8"</p>  <p>For tough root pass notching & facing applications on the pipeline</p>	<p>PIPELINE NOTCHING WHEEL 1/8"</p>  <p>Heavy stock removal, scale removal, weld removal, weld blending, edge beveling and torch-cut softening</p>	<p>GRINDING WHEEL 1/4"</p> 

CUTTING, GRINDING & COMBO WHEELS

Our high quality line up helps you easily select the best solution for your toughest metal fabrication jobs.



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SIZE	2"	3"	4"	4.5"	5"	6"	7"	9"	12"	14"	16"	20"	
	DIE GRINDERS 1/4" & 3/8" Arbor		GRINDERS 5/8" Arbor	ANGLE GRINDERS 7/8" Arbor or 5/8"-11 Nut					CHOP SAWS 1" Arbor				
									HIGH SPEED SAWS 1" & 20mm Arbor				
												STATIONARY SAWS 1" Arbor	

TYPE	CUTTING		GRINDING	
TYPE	Type 1 (Flat)	Type 27 (Depressed Center)	Type 27 (Depressed Center)	Type 28 (Depressed Center)
	90°	90°	0 - 45° 25 - 35° for optimal performance	0 - 30° 0 - 15° for optimal performance
	Flat profile allows for deep cuts	Added clearance when working at a constrained angle	Flat profile with depressed center allows for a wide range of grinding angles (0-45)	Designed for increased aggression at lower working angles and increased access

GRAIN	Material	Characteristics
	Ceramic Alumina (CG)	<ul style="list-style-type: none"> Self-sharpening crystals with predetermined fracture points High cut rate at moderate pressure
	Zirconia Alumina (ZA)	<ul style="list-style-type: none"> Self-sharpening crystals Holds up under extreme pressure Sharper, faster cut
	Aluminum Oxide (AO)	<ul style="list-style-type: none"> Single crystal Durable for short-term grinding
	Silicon Carbide (C)	<ul style="list-style-type: none"> Extremely hard grain Very sharp and fast cutting Friable, not as tough as other grains

MOUNTING

Mandrel required for 1/4" & 3/8" arbors on 2", 3" & 4" products

1/4" Arbor

3/8" Arbor

5/8" Arbor

7/8" Arbor

Adapting nuts required for 5/8" & 7/8" arbors

5/8" - 11 Nut

- Quick spin-on, spin-off change over
- Metal nut eliminates cross-threading or sticking to spindle due to heat build-up

GRAIN	C	AO	ZA	ZA+	CG	
DURABILITY	+					
SELF SHARPENING	+					
	+= Ceramic Infused					
GRIT	16	24	30	36	46	60
	COARSE			FINE		
GRADE	N	P	R	S	T	U
	SOFT			HARD		

