BONDED FIELD SELECTION GUIDE

TIGER®

WOLVERINE™









PERFORMANCE

SUPERIOR LIFE & CUT
MAX PERFORMANCE

TIGER CERAMIC
Self-sharpening grain, cool cutting and contaminant-free. Removes material effortlessly while a hard bond keeps working longer.

PIPELINE
Ceramic-infused wheels designed for bead and angle grinding applications on the pipeline.

LONG LIFE & FAST CUT
HIGH PERFORMANCE

TIGER ZIRC
Self-sharpening Zirconia grain retains high cutting performance through the life of the wheel.

TIGER INOX
A contaminant-free bond that delivers a worry-free solution for stainless steel applications.

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.

LONG LIFE
PERFORMANCE LINE

TIGER
Aluminum Oxide grains and a strong resin bond delivers a long cutting life keeping professionals on the job longer.

FAST CUT
VALUE LINE

WOLVERINE
Weiler Wolverine cutting and grinding wheels deliver a fast cut rate and consistent performance at a good value.

MATERIAL

STEEL / METAL | **STAINLESS** | **HARD-TO-GRIND**
(Hard-to-grind metals include tool steel, inconel, high nickel alloy, titanium and armored steel)

PIPELINE

STEEL / METAL
(Includes structural steel and cast iron)

STAINLESS
and harder grade steel

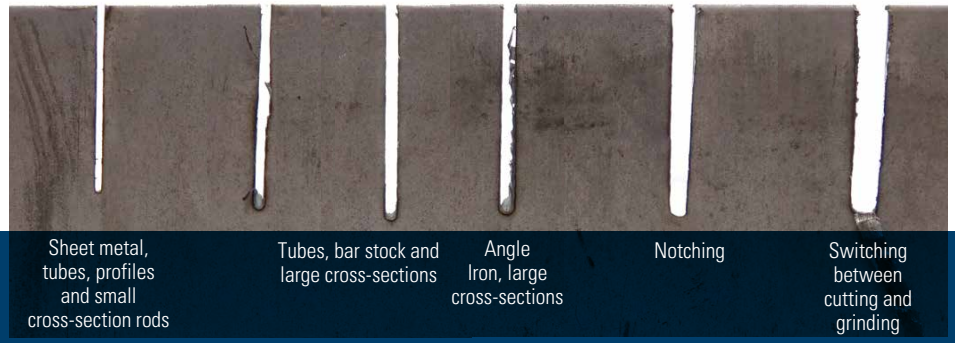
ALUMINUM
(Aluminum and other non-ferrous metals)

STEEL / METAL

STEEL / METAL

APPLICATION

When selecting a wheel, always choose the thinnest wheel that will perform the cut while maintaining desired product life.



ULTRA THIN WHEEL 1MM — Sheet metal, tubes, profiles and small cross-section rods

THIN WHEEL .045" — Tubes, bar stock and large cross-sections

THIN WHEEL .060" — Angle Iron, large cross-sections

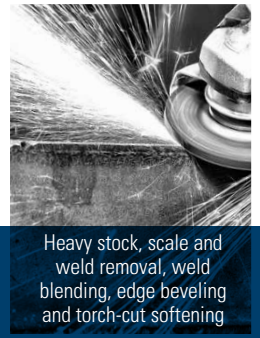
CUTTING WHEEL 3/32" — Notching

PIPELINE NOTCHING WHEEL 1/8" — Switching between cutting and grinding

COMBO WHEEL 1/8"



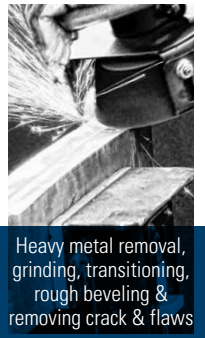
PIPELINE NOTCHING WHEEL 1/8" — For tough root pass notching & facing applications on the pipeline



GRINDING WHEEL 1/4" — Heavy stock, scale and weld removal, weld blending, edge beveling and torch-cut softening



CONES & PLUGS — I.D. cleaning, hole edge beveling, smoothing weld seams, removing gates & parting lines



CUP WHEELS — Heavy metal removal, grinding, transitioning, rough beveling & removing crack & flaws

CUTTING, GRINDING & COMBO WHEELS, FLARING CUPS, CONES, PLUGS
Our high quality line up helps you easily select the best solution for your toughest metal fabrication jobs.

WEILER®

BONDED FIELD SELECTION GUIDE

SIZE

1" 2" 3" 4" 4.5" 5" 6" 7" 9" 12" 14" 16" 20"

- CONES & PLUGS
- FLARING CUPS
- CHOP SAW WHEELS
- CUTTING WHEELS
- HIGH SPEED SAW WHEELS
- GRINDING & COMBO WHEELS
- STATIONARY SAW WHEELS

TYPE

Cutting

Type 1 (Flat)



Flat profile allows for deep cuts

Type 27 (Depressed Center)

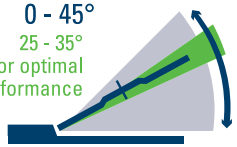


Added clearance when working at a constrained angle

Grinding

Type 27 (Depressed Center)

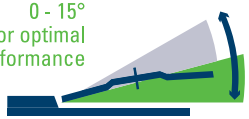
0 - 45°
25 - 35° for optimal performance



Flat profile with depressed center allows for a wide range of grinding angles (0-45)

Type 28 (Depressed Center)

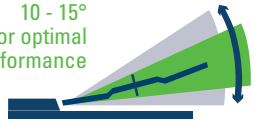
0 - 30°
0 - 15° for optimal performance



Designed for increased aggression at lower working angles and increased access

Type 29 (Depressed Center)

5 - 25°
10 - 15° for optimal performance



Increases surface contact, deters gouging, and improves operator comfort

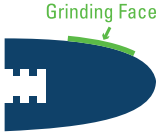
Type 11 Cup

0 - 15° for optimal performance



Type 16 Cone

Grinding Face



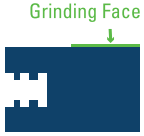
Type 17 Cone

Grinding Face



Type 18 Plug

Grinding Face



Type 18R Plug

Grinding Face



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



5/8" - 11 Nut
3/8" - 24 Nut

GRAIN



Ceramic Alumina (CG)

- Self-sharpening crystals with predetermined fracture points
- High cut rate at moderate pressure



Zirconia Alumina (ZA)

- Self-sharpening crystals
- Holds up under extreme pressure
- Sharper, faster cut



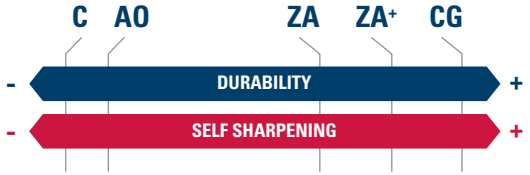
Aluminum Oxide (AO)

- Single crystal
- Durable for short-term grinding



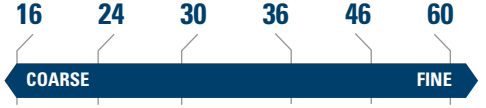
Silicon Carbide (C)

- Extremely hard grain
- Very sharp and fast cutting
- Friable, not as tough as other grains



+ = Ceramic Infused

GRIT



GRADE



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