BONDED FIELD SELECTION GUIDE

SUPERIOR LIFE & CUT
MAX PERFORMANCE
TIGER CERAMIC
Self-sharpening and cool cutting. Ceramic grain removes material effortlessly while a hard bond keeps working longer.

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.

ROUGHNECK
Ceramic infused wheels designed for tough applications on the pipeline.

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

SUPERIOR LIFE & CUT
MAX PERFORMANCE
TIGER CERAMIC
Self-sharpening and cool cutting. Ceramic grain removes material effortlessly while a hard bond keeps working longer.

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.

ROUGHNECK
Ceramic infused wheels designed for tough applications on the pipeline.

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

MATERIAL
Tool Steel, Inconel, High Nickel Alloy, Titanium and Armored Steel
Carbon Steel, Structural Steel and Cast Iron
Stainless Steel and harder Steel grades
Aluminum
Pipeline
Carbon Steel, Structural Steel, Cast Iron and general purpose metal use
Carbon Steel, Cast Iron and general purpose metal use

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

APPLICATION
 ULTRA THIN WHEEL
THIN WHEEL
THIN WHEEL
CUTTING WHEEL
CUTTING WHEEL
COMBO WHEEL
PIPELINE WHEEL
GRINDING WHEEL
1MM
.045”
.060”
3/32”
1/8”
1/8”
1/8”
1/4”

Sheet metal, tubes, profiles and small cross-section rods
Tubes, bar stock and large cross-sections
Angle Iron, large cross-sections
Notching
Switching between cutting and grinding
For tough root pass notching & facing applications on the pipeline
Heavy stock removal, scale removal, weld removal, weld blending, edge beveling and torch-cut softening

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

CUTTING, GRINDING & COMBO WHEELS
### Size

<table>
<thead>
<tr>
<th>SIZE</th>
<th>DIE GRINDERS</th>
<th>GRINDERS</th>
<th>ANGLE GRINDERS</th>
<th>SAWS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>1/4&quot; &amp; 3/8&quot; Arbor</td>
<td>5/8&quot; Arbor</td>
<td>7/8&quot; Arbor or 5/8&quot;-11 Nut</td>
<td>1&quot; Arbor</td>
</tr>
<tr>
<td>3&quot;</td>
<td>1/4&quot; &amp; 3/8&quot; Arbor</td>
<td>5/8&quot; Arbor</td>
<td>7/8&quot; Arbor or 5/8&quot;-11 Nut</td>
<td>1&quot; Arbor</td>
</tr>
<tr>
<td>4&quot;</td>
<td>1/4&quot; &amp; 3/8&quot; Arbor</td>
<td>5/8&quot; Arbor</td>
<td>7/8&quot; Arbor or 5/8&quot;-11 Nut</td>
<td>1&quot; Arbor</td>
</tr>
<tr>
<td>4.5&quot;</td>
<td>1/4&quot; &amp; 3/8&quot; Arbor</td>
<td>5/8&quot; Arbor</td>
<td>7/8&quot; Arbor or 5/8&quot;-11 Nut</td>
<td>1&quot; Arbor</td>
</tr>
<tr>
<td>5&quot;</td>
<td>1/4&quot; &amp; 3/8&quot; Arbor</td>
<td>5/8&quot; Arbor</td>
<td>7/8&quot; Arbor or 5/8&quot;-11 Nut</td>
<td>1&quot; Arbor</td>
</tr>
<tr>
<td>6&quot;</td>
<td>1/4&quot; &amp; 3/8&quot; Arbor</td>
<td>5/8&quot; Arbor</td>
<td>7/8&quot; Arbor or 5/8&quot;-11 Nut</td>
<td>1&quot; Arbor</td>
</tr>
<tr>
<td>7&quot;</td>
<td>1/4&quot; &amp; 3/8&quot; Arbor</td>
<td>5/8&quot; Arbor</td>
<td>7/8&quot; Arbor or 5/8&quot;-11 Nut</td>
<td>1&quot; Arbor</td>
</tr>
<tr>
<td>9&quot;</td>
<td>1/4&quot; &amp; 3/8&quot; Arbor</td>
<td>5/8&quot; Arbor</td>
<td>7/8&quot; Arbor or 5/8&quot;-11 Nut</td>
<td>1&quot; Arbor</td>
</tr>
<tr>
<td>12&quot;</td>
<td>1/4&quot; &amp; 3/8&quot; Arbor</td>
<td>5/8&quot; Arbor</td>
<td>7/8&quot; Arbor or 5/8&quot;-11 Nut</td>
<td>1&quot; Arbor</td>
</tr>
<tr>
<td>14&quot;</td>
<td>1/4&quot; &amp; 3/8&quot; Arbor</td>
<td>5/8&quot; Arbor</td>
<td>7/8&quot; Arbor or 5/8&quot;-11 Nut</td>
<td>1&quot; Arbor</td>
</tr>
</tbody>
</table>

### Type

**Type 1** (Flat)
- Flat profile allows for deep cuts

**Type 27** (Depressed Center)
- Added clearance when working at a constrained angle

**Type 28** (Depressed Center)
- Designed for increased aggressiveness at lower working angles and increased access

### 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

### Arbor Holes

- **1/4" Arbor**
- **3/8" Arbor**
- **5/8" Arbor**
- **7/8" Arbor**

**Arbor Required for Mandrel**: 5/8"-11 Nut

**Adapting Nuts Required**:
- 5/8" & 7/8" arbors
- 1/4" & 3/8" arbors on 2", 3", & 4" products

### Grit

<table>
<thead>
<tr>
<th>Grit</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>COARSE</td>
</tr>
<tr>
<td>24</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td></td>
</tr>
<tr>
<td>46</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>FINE</td>
</tr>
</tbody>
</table>

### Grade

- **N** = SOFT
- **R** = HARD
- **S** = SELF SHARPENING
- **T** =  + = Ceramic Infused

Selecting the best wheel type for your application increases wheel effectiveness and user productivity.