

The Zapp logo is displayed in a large, white, sans-serif font in the top right corner of the image. The background of the entire top section is a photograph of several large, cylindrical metal tooling components, likely made of Z-12Ultra PM, stacked on wooden pallets.

# ZAPP

**Ul·tra** [uhl-truh] adjective  
1. Beyond the limits; extreme

## Z-12Ultra PM™ TOOL LIFE WITHOUT LIMITS

Introducing Z-12Ultra PM – Ultra high-performance tool steel for maximum tool life

High-volume tooling fails due to limited wear resistance, toughness, or compressive strength. Z-12Ultra PM improves all three characteristics compared to common high-wear tool steels, leading to longer tool life at a lower cost. Z-12Ultra PM continues Zapp's 300-year tradition of innovation through *Engineered Solutions*.



**Wear Resistance**  
vs. A11



**Toughness**  
vs. A11



**Compressive Strength**  
vs. A11

When you need ultra-long tool life, you can rely on Z-12Ultra PM.

Contact Zapp today to discuss your unique application.

The Zapp logo is displayed in a large, dark grey, sans-serif font in the bottom left corner.

# ZAPP

TOOLING ALLOYS  
ISO 9001: 2015

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Phone +1 (843) 871-2157  
Toll-free +1 (888) 928-9927  
ztasales@zapp.com, www.zapp.com

## Z-12Ultra PM™ STOCK SIZES

Z-12Ultra PM is available in a wide range of round and flat sizes, available in cut-pieces or full bar lengths.

New sizes are being added to inventory so please contact your Zapp representative for a current inventory list or to discuss special sizes for your application.

### ROUND BARS

1.015"	4.062"
1.515"	5.062"
2.031"	6.062"
2.281"	7.125"
2.531"	8.125"
3.062"	9.125"
3.562"	10.125"

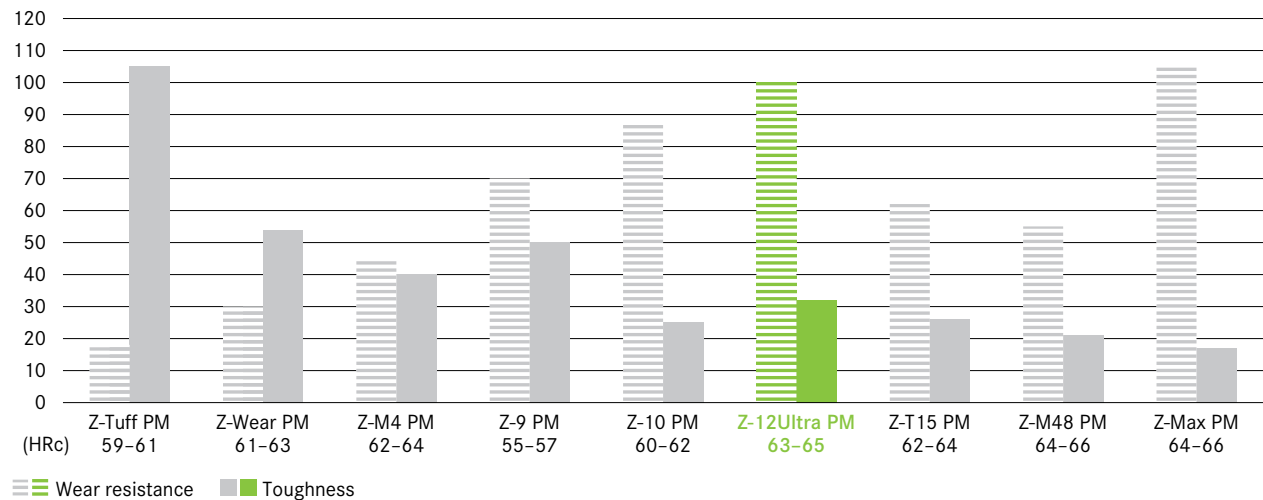
### FLAT BARS

All flat sizes up to 12" thick are available

Flats are available with saw-cut tolerances or Z-Squared to your tolerance specifications.

Please contact your Zapp representative to discuss having your steel Z-Squared quickly and cost effectively.

### COMPARISON OF MATERIALS



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