

ADVANCING PERFORMANCE THROUGH CONTINUED DEVELOPMENT

HIGH-PERFORMANCE VMT BOND FOR NORTON SILICON CARBIDE GRINDING WHEELS

The constant development of new materials across many industries requires continued development and improvements in grinding wheel technology. With the introduction of a new improved high-performance VMT bond, developed by our world class R&D and engineering teams, our superior performing silicon carbide grinding wheels offer the best choice for these and future material needs.

The unique VMT bond is specifically designed for silicon carbide wheels, allowing for more versatile grinding with improved performance compared to traditional silicon carbide grinding wheels. Advanced glass VMT bond technology delivers the best of two key grinding metrics:

- Reduced power draw
- Improved wheel life

This combination of superior performance in power draw and wheel life delivers more efficient grinding and longer lasting wheels for reduced total overall grinding cost.

KEY MARKET SEGMENTS

AUTOMOTIVE | MEDICAL | AEROSPACE | CUTTING TOOLS | GEAR | OIL & GAS



NORTON

SAINT-GOBAIN®

**VMT BOND FOR
SILICON CARBIDE
GRINDING WHEELS****TAKE ADVANTAGE OF
VMT TECHNOLOGY!
LOWER POWER DRAW FOR
REDUCED CYCLE TIME AND
IMPROVED WHEEL LIFE.**

VMT bond technology along with advanced silicon carbide abrasive grain offers wheels which excel in grinding a wide range of non-ferrous and difficult-to-grind material and coatings such as titanium, titanium aluminide, carbide and ceramic based spray coatings.

FEATURES & BENEFITS

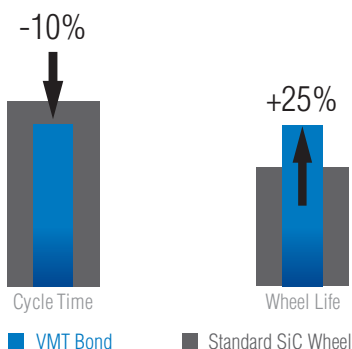
- Provides improved form holding and lower wheel wear
- Allows for reduced power draw and lower overall grinding cost
- Supports the increasing use of non-ferrous materials in auto, medical, aerospace, and other markets

PRODUCT AVAILABILITY**Abrasives:** 39C, 37C and 74C abrasive**Grade:** H to P**Wheel Diameter:** Up to 42"**Wheel Types:** 01, 02, 03, 04, 05, 06, 07, 20, 21, 23, 24, 25, 26

All of our VMT bond wheels are made-to-order to your exact requirements.

**Typical Performance
Example 1****VMT Bond vs. Standard SiC Wheel**

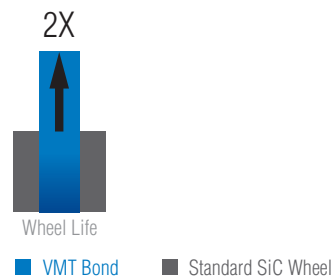
<i>APPLICATION:</i>	Cylindrical Traverse
<i>PART:</i>	Oil Plunger
<i>MATERIAL:</i>	Nickel Coating, >55 HRC
<i>MACHINE:</i>	Landis
<i>COOLANT:</i>	Low flow, Water Soluble
<i>WHEEL SIZE:</i>	30"x 2"x 12"
<i>STOCK REMOVAL:</i>	0.015"

**Results:**

- 10% Shorter cycle time
- 25% Improved wheel life
- Improved surface finish

**Typical Performance
Example 2****VMT Bond vs. Standard SiC Wheel**

<i>APPLICATION:</i>	Cylindrical Plunge
<i>PART:</i>	Laboratory Controlled Test
<i>MATERIAL:</i>	Durabar G2, 50 HRC
<i>MACHINE:</i>	Heald CF1
<i>COOLANT:</i>	Water Soluble
<i>STOCK REMOVAL:</i>	0.030"

**Results:**

- 2X Wheel life

SAINT-GOBAIN

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NO-RISK TEST