

**NORTON**

SAINT-GOBAIN®

**WINTER**

**PRISMA™**  
LITE

## BACKGRINDING WHEELS

### ACHIEVE A SUPERIOR, DEFECT-FREE FINISH

New PrismaLite Fixed Abrasive Vertical Spindle (FAVS) wheels offer superior performance for an ultra-fine finish when grinding semiconductor wafers. With a patent-pending design these free-cutting wheels require extremely low forces minimizing the risk of sub-surface damage. With a superior defect-free and scratch-free finish provided by the PrismaLite wheels CMP time can be reduced for overall cost savings.

#### KEY MARKET SEGMENTS

SEMICONDUCTOR WAFER MANUFACTURING

#### KEY MATERIALS SEGMENTS

SILICON, SILICON CARBIDE, STRUCTURAL CERAMICS, ADVANCED CERAMICS

[www.nortonabrasives.com](http://www.nortonabrasives.com)

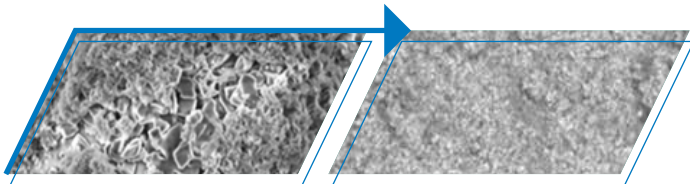


**FEATURES & BENEFITS**

- Defect-free finish with no scratch marks
- Less than 15Angstrom Ra finish reduces required CMP time
- Low cutting forces for reduced sub-surface damage
- Reliable, consistent performance throughout the abrasive segment
- Long wheel life and self-dressing design allow for maximum productivity

Large agglomerates eliminated

Novel ultra-fine process technology developed for nano sized particles results in homogeneous mixing and elimination of coarse particles.



**Specifications**

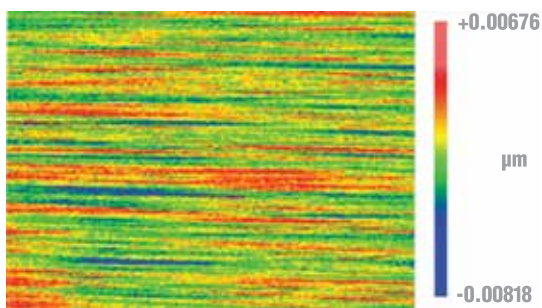
COMMON WHEEL SIZES: 8", 10", 11", 12"

BOND: Vitrified

CUSTOMIZATION: Size/Specification can be engineered upon request for optimized process independent of machine tool platform

OEMS: Revasum, Disco, Speedfam, Accretech, Okamoto

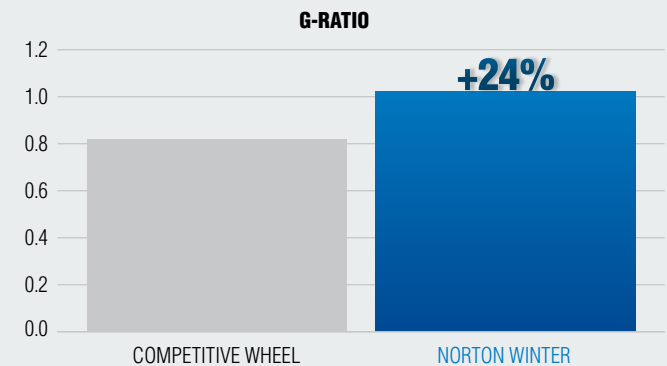
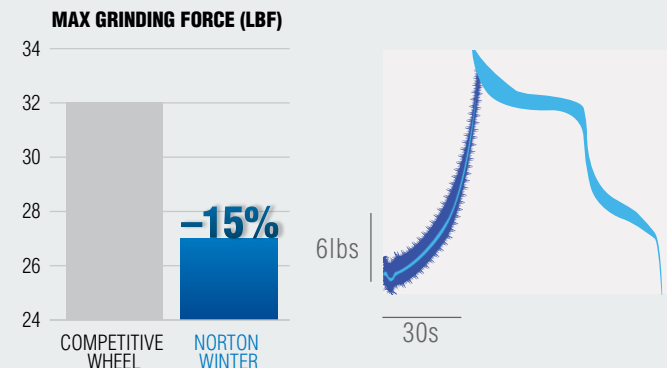
\*Patent Pending



Ra	14	Å	Size X	1.41	mm
Rz	134	Å	Size Y	1.06	mm
Rv	149	Å			

**Case Study**

APPLICATION: 150 mm 4H-N SiC Wafer  
 MACHINE: Revasum 7AF-HMG  
 NORTON WINTER WHEEL SPEC: Coarse ground with Prisma Coarse and fine ground with PrismaLite  
 INCUMBENT: Competitive Backgrinding Wheel



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**NO-RISK TEST**

