

**NORTON**

SAINT-GOBAIN

**WINTER**



## BACKGRINDING WHEELS

### ACHIEVE A SUPERIOR, DEFECT-FREE FINISH

New Prisma Fine 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 Prisma Fine wheels CMP time can be reduced for overall cost savings.

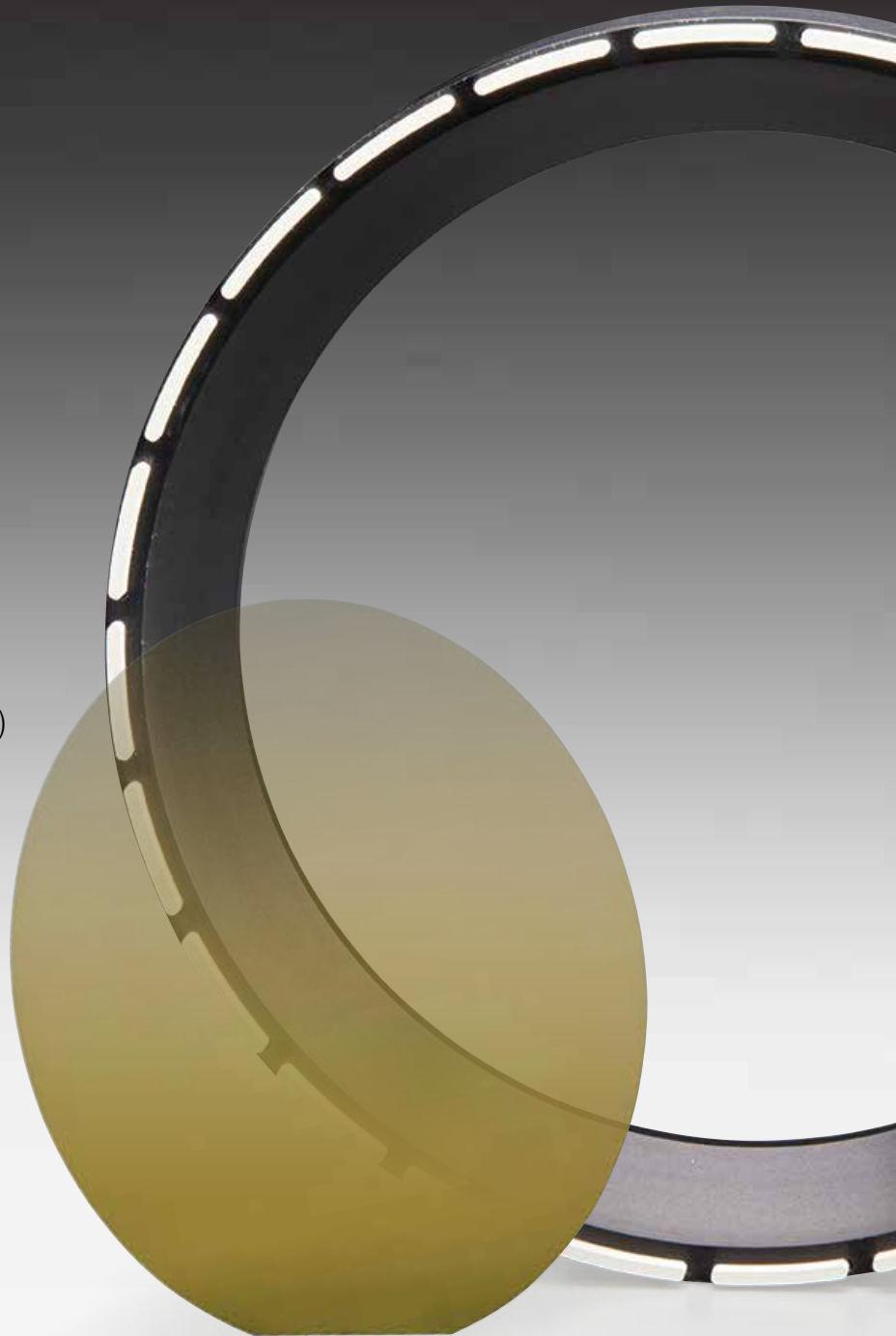
#### KEY MARKET SEGMENTS

SEMICONDUCTOR WAFER MANUFACTURING

#### KEY MATERIALS SEGMENTS

SILICON, SILICON CARBIDE, STRUCTURAL CERAMICS, ADVANCED CERAMICS

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



**NORTON**

SAINT-GOBAIN

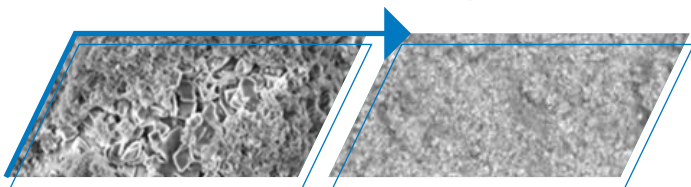
**WINTER****PRISMA FINE FAVS  
BACKGRINDING WHEELS**

## FEATURES & BENEFITS

- Defect-free finish with no scratch marks
- Less than 15 Angstrom 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

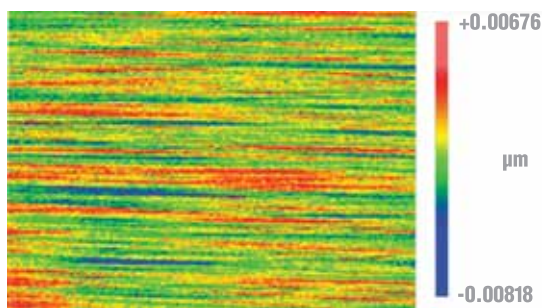
**COMMON WHEEL SIZES:** 8", 10", 11", 12"

**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

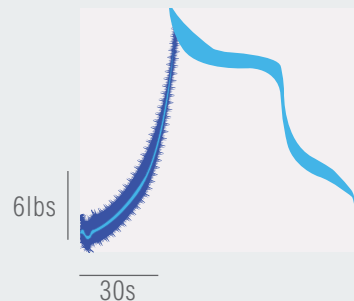
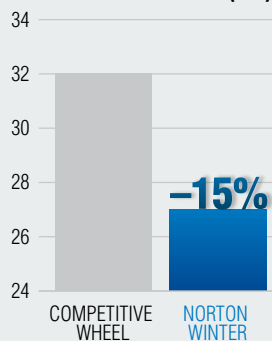


<b>Ra</b>	14	Å	<b>Size X</b>	1.41	mm
<b>Rz</b>	134	Å	<b>Size Y</b>	1.06	mm
<b>Rv</b>	149	Å			

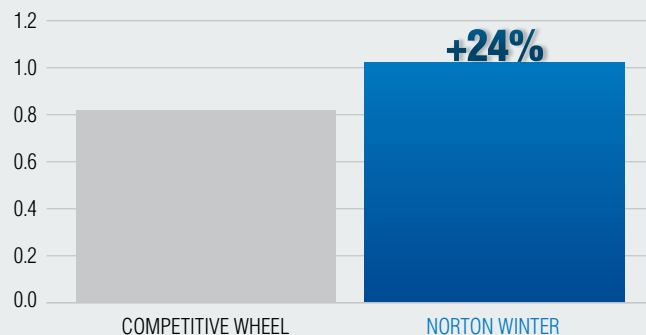
## Case Study

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

### MAX GRINDING FORCE (LBF)



### G-RATIO



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**NO-RISK TEST**

