

NORTON

SAINT-GOBAIN

WINTER

DOUBLE SIDE GRINDING (DSG) WHEELS

SUPERIOR FINISH WHEN GRINDING SILICON WAFERS

Norton Winter Double Side Grinding (DSG) wheels allow for high stock removal and long wheel life while maintaining a high quality and fine surface finish when grinding silicon wafers. With an optimized product design, these free-cutting wheels require low forces, minimizing the risk of sub-surface damage and significantly reducing the need for the subsequent Chemical Mechanical Polishing (CMP) process. The advanced Norton Winter DSG wheels deliver a significant reduction in Cost of Ownership.



KEY MARKET SEGMENTS

SEMICONDUCTOR WAFER MANUFACTURING

KEY MATERIAL SEGMENTS

SILICON | CERAMICS

www.nortonabrasives.com

NORTON

SAINT-GOBAIN

WINTER**DOUBLE SIDE
GRINDING WHEELS**

FEATURES & BENEFITS

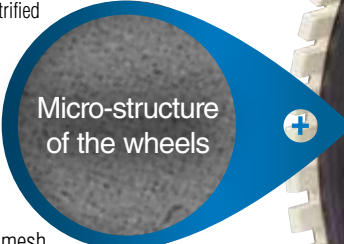
- Offers high stock removal for optimized productivity
- Minimizes sub-surface damage and creates a fine surface finish
- Combines the long life of a vitrified bond wheel with a superior finish
- Self-dressing with repeatable performance

Advanced Vitrified Bond

These Double Side Grinding wheels employ an advanced vitrified bond technology offering the benefits of long wheel life and aggressive material removal while minimizing any sub-surface damage. This creates a smooth finish to shorten the subsequent CMP step.

Specifications

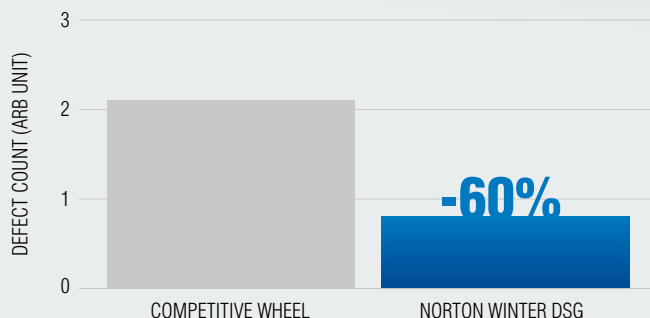
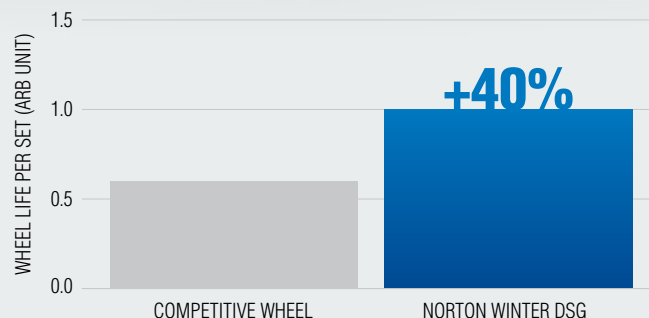
BOND:	Vitrified
GRAIN:	2,000 US mesh and 4,000 US mesh
CUSTOMIZATION:	Size and specification can be custom engineered for an optimized process, independent of machine tool platform



Micro-structure
of the wheels

Case Study

APPLICATION:	300 mm Silicon Wafer
MACHINE:	Koyo
NORTON WINTER WHEEL SPEC:	#2000 mesh
INCUMBENT:	Competitive DSG Wheel
RESULTS:	<ul style="list-style-type: none"> • Norton DSG defect count is 60% less than the competitive wheel • Norton DSG wheel life is 40% longer than the competitive wheel

WAFER SURFACE DEFECT COUNT AFTER CMP - 300 MM Si**WAFER - 300 MM Si**

www.facebook.com/NortonAbrasivesNA | www.youtube.com/NortonAbrasives | www.nortonabrasives.com

USA CUSTOMER SERVICE:

Toll Free Phone: 1 (800) 551-4413
Toll Free Fax: 1 (800) 551-4416

CANADA CUSTOMER SERVICE:

Toll Free Phone: 1 (800) 263-6565
Toll Free Fax: 1 (800) 561-9490

FORM #8907 REV. 06/22

© Saint-Gobain June 2022.

Norton, Norton Winter and "Transforming surfaces and beyond" are trademarks of Saint-Gobain Abrasives. All other trademarks are the property of their respective owners.

NO-RISK TEST