

NORTON

SAINT-GOBAIN

NORTON MSL DIAMOND WHEELS

NEW

Superior Performance for All Friction and Composite Materials

Achieve your highest productivity with our Norton Metal Single Layer (MSL) brazed diamond grinding wheels. Exposed grits, superior grain retention, minimal loading, and no dressing downtime minimize your costs and maximize your productivity.

Use Norton MSL diamond wheels when:

- Material to be ground is soft, burns or chips easily, or requires excellent swarf removal
- Operation is dry or wet
- Operation requires heavy stock removal
- Loading has occurred with other products
- Grinding nonferrous materials like ceramics, carbon fiber, fiberglass, plastic, and glass

FEATURES

- Single, uniform layer of diamond in a metal bond (MSL)
- Improved swarf clearance and coolant entry
- More grit exposure
- Better grit retention
- Solid steel core
- No truing and dressing
- Can be manufactured in a variety of shapes
- Recoating of worn wheels where possible

BENEFITS

- Highest productivity of any brazed diamond wheel
- Cooler, burn-free grinding
- 70% exposure for MSL vs. 30% for plated wheels
- None of the strippage common in plated wheels
- Increased operator safety
- Reduces downtime and extends wheel life
- Can produce complex forms
- Lowers cost

AVAILABILITY

DIAMETER:	One piece: 3" - 24"
THICKNESS:	1/8" – 12" (varies with diameter)
ABRASIVE MESH SIZE:	16/18 - 170/200 mesh
CONCENTRATION:	Varies by application from low to full

Other wheel sizes and grit sizes may be available. Contact your Norton representative for assistance.



APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

	ABRASIVE MATERIAL	ABRASIVE MESH SIZE	ABRASIVE DENSITY
HARD COMPOSITE PLASTICS (FIBERGLASS, FRICTION MATERIALS, PLASTIC LAMINATES, AND CARBON FIBER)			
No finish required	D – diamond	20/30 mesh	H – high
Some finish required	D – diamond	50/60 mesh	H – high
HARD THERMOPLASTICS (URETHANE AND OPTICAL PLASTICS)			
Without flood coolant	D – diamond	20/30 – 40/50 mesh	L – low
With flood coolant	D – diamond	50/60 – 100/120 mesh	M – medium
SELECT CERAMICS AND GLASS (REFRACTORIES, LOW DENSITY ALUMINAS, AND QUARTZ)			
Rough	D – diamond	20/30 – 60/80 mesh	H – high
Semi-finish	D – diamond	80/100 – 140/170 mesh	M – medium

FOR FOUNDRY SPECIFICATIONS, SEE THE SLS FOUNDRY SNAGGING FLYER #7711.

Norton MSL Diamond Wheel case histories

BRAKE BLOCKS

GRINDING WHEEL: Norton MSL vs. 4-segment plated wheel
RESULTS: 500,000 parts ground with the MSL wheel and 65% less downtime vs. 250,000 parts with the plated wheel
SAVINGS: \$7,600 cost savings

BRAKE PADS

GRINDING WHEEL: Norton MSL vs. conventional abrasive wheel
SAVINGS: \$15,000 reduction in grinding costs

OD AND ID OF FERRITE MAGNETS

GRINDING WHEEL: Norton MSL vs. plated wheel
RESULTS: 600,000 parts ground with the MSL wheel (a 14.3% improvement in productivity) vs. 525,000 parts with the plated wheel



BEST

For most abrasive applications, Norton offers up to three product performance levels—GOOD, BETTER, and BEST. Norton Diamond MSL wheels are in the top tier BEST. It represents products that are unmatched in the industry and provide the lowest total cost for the application. In many cases, these products are proprietary and only available from Norton.

To put Norton abrasives to work for you, call your local Norton distributor or visit our website at www.nortonindustrial.com to view our online catalog and learn about our latest products and applications.



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