

WINTER



FIXED DIAMOND WIRE

PREMIUM DIAMOND WIRE FOR SLICING, WAFERING, CUTTING, CROPPING AND BRICKING

Norton Winter patented plated diamond wire allows for superior part quality, high material yield, fast cut rate and long product life. The diamond wire is designed with premium quality diamond, a unique plating structure, and exposed diamond edges for superior performance on hard to cut materials.

KEY APPLICATIONS AND MATERIALS

SLICING | WAFERING | CUTTING | CROPPING AND DEBURRING OF DIFFICULT TO CUT MATERIALS SUCH AS SIC, ALN, SI, SAPPHIRE, CERAMICS, PRECIOUS METAL, GLASS, QUARTZ, MAGNETIC MATERIAL

KEY MARKET SEGMENTS

MEDICAL EQUIPMENT | POWER ELECTRONICS | SEMICONDUCTORS | SOLAR

www.nortonabrasives.com





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FEATURES & BENEFITS

- Tightly controlled diamond size and concentration for consistent slicing performance
- · Uniform wire diameter and even diamond distribution with no diamond clustering
- · Features engineered diamond with high diamond exposure ratio
- · Allows for accurate part dimensions, including kerf, part shape and TTV (total thickness variation)
- · Delivers a superior surface finish with minimal edge chipping
- · Onsite application support and process fine tuning available

Norton Diamond Wire Availability and Common Applications

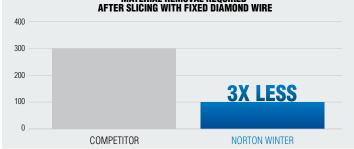
CORE WIRE DIAMETER (MM)	DIAMOND SIZE (UM)	FINISHED WIRE DIAMETER (MM)	APPLICATION
0.1	8 - 16	0.12	Wafering (Si, Ceramics, Optical glass)
0.12	10 - 20	0.14	Wafering (Si, Ceramics, optical glass)
0.13	25 - 35	0.19	Wafering (Crystals, Ceramics)
0.15	30 - 40	0.23	Wafering/Cropping (SiC, AIN, Sapphire, Hard Ceramics)
0.175	30 - 40	0.25	Wafering/Cropping (SiC, AIN, Sapphire, Hard Ceramics)
0.35	45 - 55	0.45	Bricking/Cropping (Si, Sapphire, Hard Ceramics)
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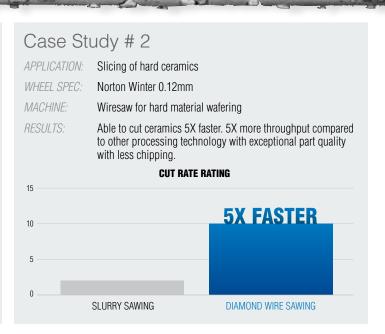
Custom Availability: Specifications can be engineered upon request for optimized processes

OEMs: PSS, Takatori, NTC, IWT, Logomatic, Toyo, etc

GRAIN DISTRIBUTION -









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