Ti-NAMITE® TOOL COATINGS

Ti-NAMITE® Tool Coatings are specifically engineered for SGS® solid carbide rotary tools. This proprietary multi-layering process results in maximized tool life and increased speed and feed rates in any application.

Ti-NAMITE-A®

Recommended For Your Applications In...

- Cast Iron
- High-temperature Alloys
- Hardened Steels
- Stainless Steels

Ti-NAMITE-A (AlTiN) is Preferred for High-speed and Dry Cutting

Hardness: 3300HV$_{0.05}$

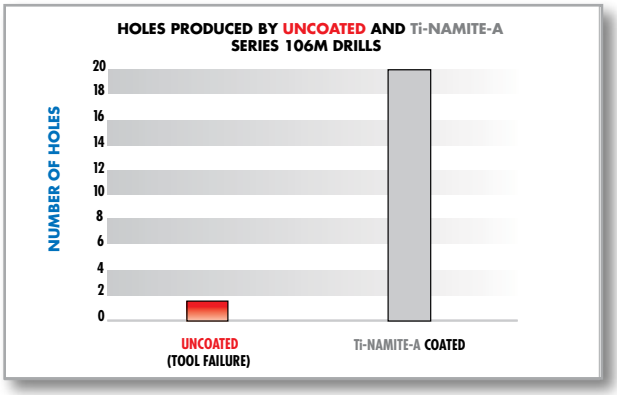
Oxidation Temperature: 800°C - 1472°F

Coefficient Of Friction: .45

Thickness: 1 - 4 Microns (based on tool diameter)

Drilling Hardened Tool Steel

Tool Type	Series 106M 6mm .2362	Series 106M 6mm .2362
Condition	UNCOATED	Ti-NAMITE-A
Material Type	ISO 4957S5H5653 M4 @ 64 HRc	ISO 4957S5H5653 M4 @ 64 HRc
Depth of Cut	15 mm .519"	15 mm .519"
Width of Cut	6 mm .2362"	6 mm .2362"
Spindle Speed	9 m/min. 477 rpm	9m/min. 477 rpm
Feed	25.4 mm/min. 1 IPM	25.4 mm/min. 1 IPM



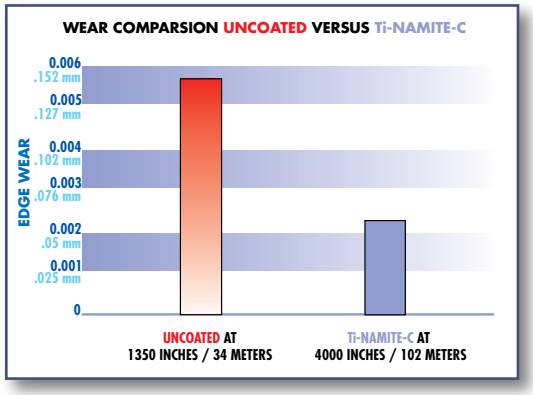
Ti-NAMITE-C®

Recommended For Your Applications In...

- High Silicon
- Aluminum Alloys
- Titanium Alloys
- Low Carbon Steel
- Alloyed Steels

Milling Application Data

Tool Type	Series 1 1/2" 12.7 mm	Series 1 1/2" 12.7mm
Condition	UNCOATED	Ti-NAMITE-C
Material Type	1018 STEEL DIN 1.0453	1018 STEEL DIN 1.0453
Depth of Cut	.500" 12.7 mm	.500" 12.7 mm
Width of Cut	.125" 3.2 mm	.125" 3.2 mm
Spindle Speed	2782 rpm 111 m/min.	4185 rpm 167 m/min.
Feed	33 IPM 838 mm/min.	50 IPM 1270 mm/min.



Hardness: 3000HV0.05

Oxidation Temperature: 400°C - 752°F

Coefficient Of Friction: .3 - .45

Thickness: 1 - 4 Microns (based on tool diameter)

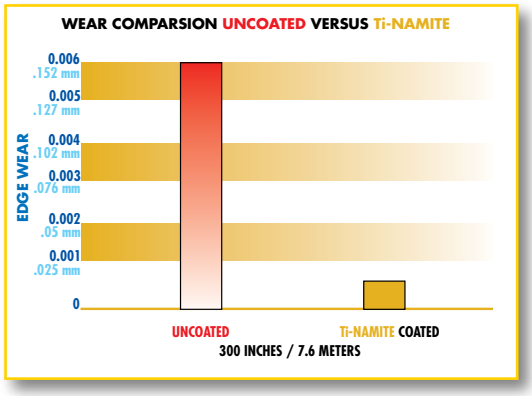
Ti-NAMITE®

Recommended For General Purpose And Applications In...

- Stainless Steel
- Medium Carbon Steel
- Alloyed Steel
- Copper Alloys
- Brass
- Bronze

Milling Application Data

Tool Type	Series 1 1/2" 12.7 mm	Series 1 1/2" 12.7mm
Condition	UNCOATED	Ti-NAMITE
Material Type	4140 STEEL DIN 1.7225	4140 STEEL DIN 1.7225
Depth of Cut	.500" 12.7 mm	.500" 12.7 mm
Width of Cut	.125" 3.18 mm	.125" 3.18 mm
Spindle Speed	1955 rpm 78 m/min.	2933 rpm 117 m/min.
Feed	23.5 IPM 596.9 mm/m	32.5 IPM 825.5 mm/m



Hardness: 2200HV0.05

Oxidation Temperature: 600°C - 1112°F

Coefficient Of Friction: .4 - .65

Thickness: 1 - 4 Microns (based on tool diameter)

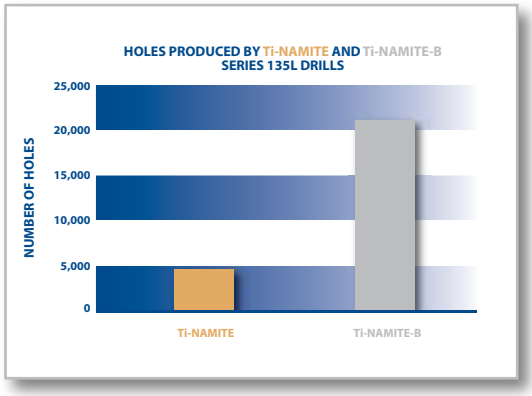
Ti-NAMITE-B®

Recommended For Your Applications In...

- High Silicon Aluminum Alloys
- Titanium Alloys

Milling Application Data

Tool Type	Series 135L 1/4" 6.35 mm	Series 135L 1/4" 6.35 mm
Condition	Ti-NAMITE	Ti-NAMITE-B
Material Type	6061 Aluminum DIN AlMg1SiCu	6061 Aluminum DIN AlMg1SiCu
Depth of Cut	1.600" 40.6 mm	1.600" 40.6 mm
Width of Cut	.2500" 6.35 mm	.2500" 6.35 mm
Spindle Speed	7500 rpm 150 m/min.	7500 rpm 200 m/min.
Feed	60 IPM 1524 mm/m	80 IPM 2032 mm/m



Hardness: 4000HV

Oxidation Temperature: 850°C - 1562°F

Coefficient Of Friction: .45

Thickness: 1 - 2 Microns (based on tool diameter)