



**A ceramic coating with extreme properties**

- **Hardness that makes it the 3rd hardest material when compared to industrial diamonds**
- **Toughness that is comparable to Titanium**
- **Lubricity that approaches Teflon**
- **Extreme heat tolerance**
- **Non-reactive to Titanium**

**Coating Properties**

MA Ford® Coating	Microhardness (HV)	Maximum Service Temp.	Friction Coefficient	Coating Thickness	Color
CERAedge™	3200-3400	1100° C / 2012° F	0.06	2-3 microns	Light Gray

**CERAedge™ Applications**

Titanium-clad composite material:  
 Hardness and lubricity ideal for composites  
 Toughness that allows excellent machining of Titanium  
 CERAedge™ is perfect for machining of Titanium-clad composites!

Aluminum and high silicon aluminum materials:  
 Hardness and lubricity extend tool life by increasing wear resistance



**Test Data**

**Material Machined:** 6061 aluminum extrusion  
**MA Ford® Tool:** 138 series, 3 Flute End Mill, 1/2" (12.7mm) OD  
**RPM:** 22,000 RPM  
**IPM:** 300 (7,620 mm/minute)

	Competitor's Lubricious Coating	MA Ford® CERAedge™ Coated
Parts Produced/Tool	5	42
Linear inches/tool (Linear m/tool)	10,690 (272)	92,976 (2,360)



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