

ALUSPEED® COATING

Sputtered Deposition: Titanium Diboride

ALUSPEED® is a high performance coating developed specifically for machining of aluminum and aluminum alloys. The coating chemistry has very low wetting properties to aluminum, thereby eliminating edge build-up, the primary cause of failure during aluminum machining.

Feature

Benefit

Low Aluminum Affinity	Prevents build-up on cutting edge
Smooth Surface Finish	Superior chip flow
High Hardness	Extended wear resistance

Properties

- Coating Chemistry: Titanium Diboride (TiB₂)
- Composition: Single Layer
- Color: Light Grey/Silver

Specifications

- Typical Thickness Range: 1.0 – 3.0 Microns (.00004 – .00012 Inches)
- Micro-Hardness: 2800 Vickers
- Temperature Stability: 700 °C (1292 °F)

Applications

- High Speed Machining
- Gear Cutting
- Drilling
- Milling
- Reaming
- Tapping

Work Piece Materials

- Aluminum Alloys
- Magnesium Alloys

Tooling Materials

- High-speed Steel
- Carbide Inserts
- Solid Carbide



For more information contact our sales professionals today!

