

TINALOX® COATING

Sputtered Deposition: Aluminum Titanium Nitride

TINALOX® is a super-hard coating with high temperature resistance developed specifically for dry machining applications.

Feature

Benefit

Extreme Service Temperature	Superior tool life when dry machining (without coolant)
Low Thermal Conductivity	Reduced thermal tool stress
Smooth Surface Finish	Superior chip flow
High Hardness	Extended wear resistance

Properties

- Coating Chemistry: Aluminum Titanium Nitride (AlTiN)
- Composition: Single Layer
- Color: Grey/Black

Specifications

- Typical Thickness Range: 2.0 - 5.0 Microns (.00008 - .0002 Inches)
- Micro-Hardness: 3600 Vickers
- Temperature Stability: 850 °C (1562 °F)

Applications

- High Speed Machining
- Dry Machining
- Hard Cutting
- Gear Cutting

Work Piece Materials

- Carbon Steel
- Stainless Steel
- Aluminum Alloys < 12% Silicon
- Cast Iron
- Plastic
- Precious Metal
- Super Alloys (Inconel, Hastelloy)

Tooling Materials

- High-speed Steel
- Solid Carbide
- Carbide Inserts



Vergason Technology, Inc.

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