

TiN COATING

Sputtered Deposition: Titanium Nitride

TiN is a general purpose coating, designed to be used in a variety of metal cutting operations.

Features and Benefits

Low Thermal Conductivity	Reduced thermal tool stress
Smooth Surface Finish	Superior chip flow
High Hardness	Extended wear resistance

Properties

- Coating Chemistry: Titanium Nitride (TiN)
- Composition: Single Layer
- Color: Gold

Specifications

- Typical Thickness Range: 2.0 - 5.0 Microns (.00008 - .0002 Inches)
- Micro-Hardness: 2700 Vickers
- Temperature Stability: 450 °C (842 °F)
- Coefficient of Friction: .4 to .5

Applications

- Drilling
- Tapping
- Milling
- Turning

Work Piece Materials

- Carbon Steel
- Stainless Steel
- Bronze
- Alloyed Steel
- Brass

Tooling Materials

- High-speed Steel
- Brazed Carbide
- Solid Carbide
- Powdered Metal



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