

CatArc® TiN COATING

Cathodic Arc Deposition: Titanium Nitride

CatArc® TiN is VTI's first coating to be deposited using our patented switched cathodic arc process. Its very low deposition temperature of 400°F makes it ideal for temperature sensitive tool steels. TiN is good for most general machining applications.

Feature

Benefit

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

Properties

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

Specifications

- Typical Thickness Range: 1.0 - 4.0 Microns (.00004 - .00016 Inches)
- Micro-Hardness: 2700 Vickers
- Temperature Stability: 450 °C (842 °F)

Applications

- General Machining
- Gear Cutting

Work Piece Materials

- Carbon Steel
- Nickel Alloys
- Stainless Steel

Tooling Materials

- High-speed Steel
- Carbide Inserts
- Solid Carbide



For more information contact our sales professionals today!