

CatArc® TiCN COATING

Cathodic Arc Deposition: Titanium Carbonitride

CatArc® TiCN is a hard general purpose coating deposited using our patented switched cathodic arc process. The very low deposition temperature of 400°F makes it ideal for temperature sensitive tool steels and stamping dies. TiCN is harder than TiN and CrN and is well suited for heavy cutting in all steels.

Feature

Benefit

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

Properties

- Coating Chemistry: Titanium Carbonitride (TiCN)
- Composition: Single Layer
- Color: Brown

Specifications

- Typical Thickness Range: 1.0 - 4.0 Microns (.00004 - .00016 Inches)
- Micro-Hardness: 2500 Vickers
- Temperature Stability: 375 °C (707 °F)

Applications

- High-speed Cutting
- Heavy Cutting
- Gear Cutting

Work Piece Materials

- All Steel Alloys

Tooling Materials

- High-speed Steel
- Solid Carbide
- Carbide Inserts



For more information contact our sales professionals today!