

CatArc® TiCN COATING

Cathodic Arc Deposition: Titanium Carbonitride

CatArc® TiCN is a hard general purpose coating deposited using our patented switched cathodic arc process. TiCN is harder than TiN and is well suited for medium severity cutting applications, primarily interrupted cutting.

Features and Benefits

Toughness	Superior strength and crack resistance
High Service Temperature	Reduced thermal tool stress
High Hardness	Extended wear resistance

Properties

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

Specifications

- Standard Thickness: 1.0 - 2.0 Microns (.00004 - .00008 Inches)
- Application Range: 1.0 - 5.0 Microns (.00004 - .0002 Inches)
- Micro-Hardness: 2800 Vickers
- Temperature Stability: 500 °C (932 °F)
- Coefficient of Friction: .40

Applications

- Drilling
- Milling
- Turning
- Tapping
- Reaming
- Slotting
- Trimming
- Blanking
- Piercing

Work Piece Materials

- Die Steel
- Cast Iron
- Stainless Steel
- Carbon Steel

Tooling Materials

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



contact our sales professionals today!