

# 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!*