

TICN COATING

Sputtered Deposition: Titanium Carbonitride

Sputter Deposited TiCN is a very hard yet tough coating developed specifically to withstand severe impact, abrasion, and thermal shock. Its special multi-layer composition resists impact stress through reversible deformation.

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: Multi Layer
- Color: Reddish/Black

Specifications

- Typical Thickness Range: 2.0 – 5.0 Microns (.00008 – .0002 Inches)
- Micro-Hardness: 3000 Vickers
- Temperature Stability: 600 °C (1112 °F)
- Coefficient of Friction: .3 to .45

Applications

- Drilling
- Turning
- Milling
- Tapping

Work Piece Materials

- Steel Alloys
- Low Carbon Steel

Tooling Materials

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



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