

CatArc® CrN COATING

Cathodic Arc Deposition: Chromium Nitride

CatArc® CrN is a tough lubricious 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. CrN toughness makes it a good candidate for metal-forming dies. Its lubricity provides superior life when machining non-ferrous abrasive materials such as copper.

Feature

High Lubricity
Toughness
Smooth Surface Finish

Benefit

Extended wear resistance in non-ferrous applications
Superior strength and crack resistance
Superior chip flow

Properties

- Coating Chemistry: Chromium Nitride (CrN)
- Composition: Single Layer
- Color: Silver

Specifications

- Typical Thickness Range: 1.0 - 4.0 Microns (.00004 - .00016 Inches)
- Micro-Hardness: 2500 Vickers
- Temperature Stability: 700 °C (1292 °F)

Applications

- Interrupted Cutting
- Gear Cutting
- Die Forming
- Tapping/Threading
- Sawing
- Punching

Work Piece Materials

- Nickel Alloys
- Brass/Bronze
- Titanium
- Precious Metal
- Copper

Tooling Materials

- High-speed Steel
- Solid Carbide
- Carbide Inserts



Vergason Technology, Inc.

For more information contact our sales professionals today!

