Thin Dense Chrome:

Coating Description

Thin Dense Chrome is electroplated chromium with a thickness generally 0.0001" to 0.0002" where the chromium structure is denser. This dense condition is created by using specific bath chemistry combined with tailored application techniques. These carefully monitored parameters produce a uniform coating thickness while maintaining tight tolerances.

Features & Benefits

- Increased Wear Life – Typical hardness between 65-70 HRc
- Good Heat Resistance
- Maintain original tolerances of component with no finishing operation after plating
- Excellent corrosion protection – dependent on such factors as surface finish, porosity, base metal, corrosive media, etc.

Design Recommendations

See Design Recommendation page

Typical Applications

Dies, aircraft, medical parts.

Black Chrome:

Coating Description

Black chrome is an electrolytic plating process which produces a chromium oxide film utilized for both functional and decorative purposes. Its appearance depends on the base metal and the surface condition prior to plating. Although not a thick deposit the resulting color ranges from a semi-shiny black color on nickel to a flat black appearance on steel or zinc alloys.

Features & Benefits

- Ideal for high temperature applications
- Low Reflectivity (93%)
- Attractive Heat Sink

Design Recommendations

See Design Recommendation page

Typical Applications

Solar panels, lens holders in optical systems.
Crack-free Chromium:

Coating Description

Crackfree chrome is an electroplated version of Industrial Hard Chromium but as the name implies, does not exhibit the crack pattern inherent in IHC.

Features & Benefits

Excellent Wear resistance – similar to IHC although slightly softer at 65 Rc
Superior corrosion protection – lack of cracks in the deposit is advantageous
Greater thickness (up to 0.0005) achievable compared to Thin Dense Chrome

Design Recommendations

See Design Recommendation page

Typical Applications

Commercial hydraulics, ID parts subjected to wear and corrosive gases, etc.

Properties:

See Industrial Hard Chrome plating page

Design Recommendations:

See Design Recommendation page

Typical Applications:

Applications include housings, shafts, and other components for the aerospace and oil/gas industries.

For more information contact us:

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