

TM-Invinc-Alloy is a hard coating that has a low coefficient of friction. It outperforms chrome in wear applications two to four times, and has three to ten times the corrosion resistance of chrome. Unlike chrome, this coating has some leveling properties, which helps maintain surface Ra. TM-Invinc-Alloy is mainly used in high wear, anti-galling, release, or corrosive type applications. It can be applied to all ferrous & most non-ferrous metals. As coated, the hardness is 520 to 750 Vickers. After heat-treatment of 400 degrees F for six hours the hardness increases between 900 and 1100 Vickers. Invinc-Alloy has outperformed the pin on-disc wear testing Hard Chrome results by 2 to 4 times. The Invinc-Alloy deposit and process is CHROME-FREE. The coating is bright, scratch resistant, and environmentally friendly.

Applications and user benefits : Anti-Wear with Corrosion Resistance Three to Ten Times greater than Chrome

- Hard Chrome Replacement and Flame Spray Alternative Technology, not limited to line of sight.
- Applications: Aerospace, DoD, Automotive, Tool & Die, Electronics, Hydraulics, Rotating Equipment, Oil & Gas, and many others
- Benefits: Better Throwing Power & Uniformity than Chrome, Corrosion Resistance, Hardness, and Environmentally Friendly

Hard Chrome
Standard Salt Spray Testing Results
Mild Steel Rods, Substrate Hydraulic Rod



Hard Chrome Corrosion 48 hours results above picture
Hard Chrome .0005 inches Thick (48 hours)

Invinc-Alloy
Standard Salt Spray Testing Results
Mild Steel Rods, Substrate Hydraulic Rod



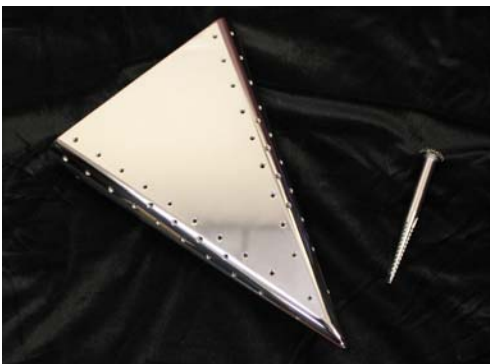
Surpasses Chrome Corrosion Resistance by 3 to 10 Times
Invinc-Alloy .0005 inches Thick (500 hours)

Properties

- Anti-Galling
- Corrosion Resistance
- Hard Deposit
- Rockwell-C 65-72
- Low Coefficient of Friction
- Wear Resistance
- Erosion Resistance

Production Applications

- Landing Gear
- Pistons, Hydraulics,
- Struts, Shocks
- Connectors, Pumps,
- & Many Others



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