



Aluminum's Answer for Wear, Hardness, & Corrosive Applications

E-Krome-Plus has outperformed hard coat anodize or conventional EN on aluminum molds, automotive parts and extrusion applications. On average, it provides three to ten times longer life. Aluminum alloys don't work in some applications due to hardness and wear requirements that steels can provide. Heat-treatment after plating is not required. Heat-treating Aluminum alloys can damage most aluminums properties. **AS COATED, IT PROVIDES A HARDNESS OF 60-64 Rockwell-C!**

E-KROME-Plus™ is Techmetals' latest coating innovation! It provides corrosion resistance equal or greater than chrome. This coating was designed to handle today's toughest wear applications. In many engineered applications, the mirror-bright finish & overall deposit uniformity eliminate the need for hard & post plate grinding or polishing often associated with chrome. It is almost like depositing electroless chrome! E-Krome-Plus deposits can be held (+/- .0001) on parts requiring no post machining when parts are designed to be plated.

Best Described as an Electroless Chrome-Like Alloy

User Benefits

- Superior Hardness & Release Properties
- Hard-Chrome Replacement
- Protects Parts & Tooling From Wear
- Uniformity of Thickness & No Post Machining
- Increase/Improve MTBF of Equipment
- Prevents Premature Failure on Moving Parts
- Can Be Applied to Ferrous & Non-Ferrous Alloys
- Superior Corrosion Protection
- Economical & Longer Life for Parts
- Bright, Shiny & Decorative Appearance

Aluminum's New Best Friend: E-Krome-Plus!



Large Aluminum Molds coated with E-Krome that allow Aluminum to be used instead of Steel or Stainless

Properties

As Plated

After Heat-Treatment

| | | |
|---|-------------------|----------------|
| Coating Thickness per Application Range | .0002-.003 | .0002-.003 |
| Salt Spray .001 Thickness | 500 to 1000 hours | |
| Hardness Vickers/Rockwell-C | 740-825 HV/60-64 | 850-1075/66-70 |

Industries & Applications

Aerospace/Aircraft: Jet Engine Parts

Locomotive Parts: Bushings, Break Calipers, Gears & Pistons

Metal Processing: Rollers & Dies

Department of Defense: Gun Parts, Bushings & Slides

Automotive: Pulleys, Power-train, Transmissions & Drives

Molding, Tool & Die: Molds, Punches, Pins & Dies

Mining: Drilling Tools

Injection Molding: Textures, Release, Tooling & Increase Mold Life

Pull: & Shafts for Drilling & Pump Parts

Glass Manufacturing: Shoots, Slides, Molds, & Forming

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