ANOPLATE

ENhanced Nickel

Our Solutions make your products better

A family of chemically deposited electroless nickel (EN) coatings

ENhanced Nickel is Anoplate's line of proprietary industrial, electroless nickel deposits. **ENhanced Nickel** deposits a uniform, smooth and shiny deposit that is proven to reduce wear, friction, and improve corrosion resistance on your components.

Strict control of bath parameters and a proprietary system setup gained from years of electroless nickel plating experience yield uniquely-developed **ENhanced Nickel** coatings with specific physical and metallurgical properties.

ENhanced Nickel is resistant to many common industrial gases and liquids, including:

□ Acetone

 □ Milk

HBeerHPetroleum productsHFormaldehydesHSodium Hydroxide

ENhanced Nickel can be applied to a wide variety of materials, including steel ,stainless steel, Inconel, Monel, Invar, Kovar, aluminum, brass & copper.

Benefits

- ☐ Uniform coverage, both internally and externally, including threads, grooves, sharp corners and other complex shapes
- □ Ability to hold close tolerances by preventing uneven build-up
- □ Variable formulations geared toward specific engineering purposes
- □ Superb wear resistance

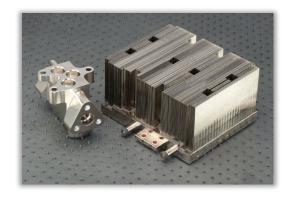
Typical Applications

ENhanced Nickel should be applied where maximum wear life and corrosion resistance are required. **ENhanced Nickel** is an excellent solution for the following applications:

- □ Injection molds
 □

ENhanced Nickels meet and exceed the following requirements:

- ¤ AMS 2404
- □ AMS-C-26074 (formerly MIL-C-26074)



ENhanced Family

- ENhanced LP9: lowest electrical resistivity, hardest as-deposited hardness, good solderability
- **ENhanced MP6:** bright deposit, good corrosion resistance, good hardness
- **ENhanced Z11:** excellent corrosion resistance, best ductility, non-magnetic deposit
- ENhanced PTFE: Low-friction, self-lubricating, contains 20-25% by Volume

Deposit Information

| Formulation | Phos Content, %x Wgt | As-Deposited Hardness, HRC | RoHS, WEEE, ELV Compliant |
|---------------|-------------------------|-------------------------------|------------------------------|
| ENhanced LP9 | 4-6 | 56-61 | No |
| ENhanced MP6 | 6-9 | 45-50 | Yes |
| ENhanced Z11 | 10-12 | 45-48 | Yes |
| ENhanced PTFE | 10-12 | NA | Yes |

Film Thickness & Tolerances

ENhanced Nickel is typically specified for thicknesses in the range of 0.0002"-0.001", but can easily be applied to thicknesses up to 0.003". For extreme wear or corrosion applications, a deposit thickness greater than 0.001" per surface is recommended.