

A Superior High Phosphorus Electroless Nickel for the Next Millenium

NAEN 2000 TM

NAEN 2000 is a semi to bright Electroless Nickel designed specifically to maximize corrosion resistance of ferrous and many non-ferrous metals. This process is recognized for several desirable properties; corrosion resistances, hardness, wear resistant, ductility, lubricity, non-magnetic, low stress, and deposit capabilities more than 3. Mills. Uniform deposit allows for 100% coverage on complex shapes without build-up on edges. Deposit thickness can be controlled within +/- .0001", in order to maintain tight dimensional tolerance.

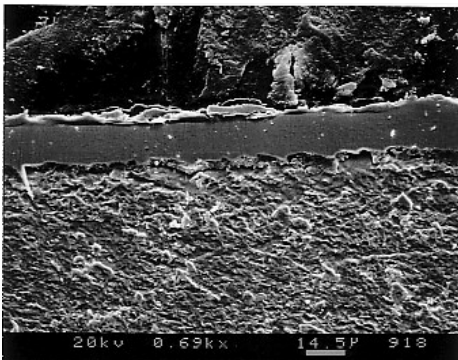


Benefits

- Uniform Porous Free Deposit
- Excellent Corrosion Protection
- Natural Mold Release
- Complies with FDA And USDA standards

Applications

- Automotive
- Marine
- Aerospace
- Food Service
- Hydraulics / Valves / Mold



North American EN, Inc
 776 Lunt Ave
 Elk Grove Village, Illinois 60007
 Tel 847.952.3680
 Fax 847.690.0171
 www.northamericanen.com

Technical Data

Phosphorus Content - 10.5 - 12

Hardness

| | |
|---------------------------|------------|
| Knoops Hardness | |
| 100g Load 3.0 mil Deposit | |
| As Plated..... | 450 - 550 |
| Heat Treated..... | 900 - 1000 |

Wear

| | |
|---------------------------------|---------|
| Taber Wear Test Index Value | |
| Wt. Loss mg/1000 Cycle | |
| As Plated..... | 18 - 22 |
| Heat treated 1hr 750 deg. F.... | 10 - 15 |

Salt Fog

Salt Spray Test (Per ASTM B117)
 95 deg F 5%, NaCl, 1 mil deposit,
 Hours till first Corrosion Sight Steel1000 hr

Melting Point

| | |
|---------|------|
| C | 880 |
| F | 1620 |

Nitric Acid Test

Concentrated Nitric Acid 42 be'
 30 sec room temp 1.0 mil deposit Meets or Exceeds

Electrical Resistivity - microhm-cm 0.0105

Coefficient of Thermal Expansion u/m/c.....14-16