



Techniloy® When corrosion protection, wear resistance, and hardness are required; this engineered alloy is Techmetals' cost reduction solution for Electroless Nickel. Techniloy is a unique, high-performance, nickel-based deposit for functional engineering applications. This alloy meets RoHS & the new ELV requirements. The bath formulation allows Techmetals to achieve up to ten times longer bath life than conventional EN, which helps reduce new bath make-up costs and waste treatment needs.

User Benefits

- Superior Corrosion Resistance
- Lower Coefficient of Friction than Steel
- Protects Part Wear
- Increase/Improve MTBF of Equipment
- Can be a porous-free deposit
- Release Properties
- Natural Lubricity
- Meets RoHS & ELV requirements
- Corrosion is the same as or better than normal EN
- Complies with FDA & USDA Regulations

Properties

Deposit Thickness

Salt Spray Test 1.0 mil ASTM B117

Hardness

Coefficient of Friction

Taber Wear Test loss mg/1000 cycles

Melting Point

As Plated

.0001-.005

1,000 hours plus

500-580 Knoop

0.1-0.2

15-22

1500 F

After Heat-Treatment

.0002-.005

800-950 Knoop

0.09-.15

4-8

1600 F

Industries & Applications

Automotive: Ball Studs, Alternator Diodes, Knuckle Pins, Hose & Pins

Aircraft/Aerospace: Struts & Landing Gear

Computer: Clutches, Drives & Connectors.

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

Recreation Equip: Slides & Gears

Injection Molding: Molds Repair

Oil & Gas/Bushings: Shafts for Drilling & Pump Parts

Food Equipment: Feed/Extrusion screws & Mixing Bowls



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