



**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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