

IFT is a World Class Metal Finishing
Company Specializing in Plating,
Coating, Testing, and Consulting Services.



ELECTROLESS NICKEL PLATING







Electroless Nickel Plating

Electroless nickel offers greater uniformity than conventional electroplating. IFT can control electroless nickel deposits to +/- 0.00005" per side, with no buildup on edges and uniform coverage on all surfaces of intricately shaped parts. Electroless Nickel also offers outstanding corrosion protection. A 0.001" coating thickness can exceed 1000 hours of salt spray testing.

The many different types of Electroless Nickel plating available offer a wide range of properties which can be tailored to suit your needs. Electroless Nickel is used in numerous applications, including; injection molding tools & dies, pumps, valves & chemical industry, general machinery applications, automotive industry, medical industry, appliance industry, electronics industry, aerospace industry, decorative metals industry, food industry, salvage and repair, among many others.

Advantages of IFT's Electroless Nickel Plating

- Awarded preferred supplier status with many industry leading companies
- IFT recognized as a leading authority in Electroless Nickel plating
- Superior process controls
- IFT only uses quality certified coatings
- Superior accuracy, typically exceeds industry standards
- Environmentally responsible company
- "Soft touch" part handling
- Strategic alignments with world-class chemistry suppliers and technical resources
- Many additional, supporting processes for a one-stop source
- In house testing lab

Technical Information

Density

7.75 to 8.5 gm/cm³

Electrical Resistivity

Up to 20 µ-cm

Engineering Properties

Deposit Structure

Deposit Uniformity

Tensile Strength

Exceeds 700 MPa (100kpsi)

Hardness

500 to 925 HK100

45 to 72 HRC

Resistances

Wear

Abrasion

Corrosion

Low Coefficient of Friction

Low Phosphorus (1%-4%) - Up to 60 Rc hardness as deposited, alkali resistance, solderable, cadmium, chrome and lead free Medium Phosphorus (5%-9%) - Cadmium & lead free, high brightness finish, cadmium, chrome and lead free High Phosphorus (10%-13%) - Semi-bright to bright finish, cadmium, chrome and lead free Electroless Nickel with PTFE - Superior lubricity, cadmium, chrome and lead free



IFT'S Electroless Nickel		
Plating Capabilities		
Plating Processes	Substrates	
Low Phosphorus (1%-4%) Electroless Nickel	Steel	
Medium Phosphorus (5%-9%) Electroless Nickel	Stainless Steel	
High Phosphorus (10%-13%) Electroless Nickel	Aluminum	
Electroless Nickel Composite	Brass	
Electroless Nickel with PTFE	Copper	
Cadmium Free Electroless Nickel	Titanium	
Chrome Free Electroless Nickel	Inconel	
Lead Free Electroless Nickel	Production Capacity	
Duplex Plating	Small precision parts	
Processed By.With:	Prototypes	
Masking / Selective Coating	High volume production orders	
Brush Plating	Lead Times	
Rack Processing	Short Lead Times Typical	
Barrel Processing	Expediting Available	
Highly-detailed specification parts	Testing Services	
Pre-plate Operations	Salt Spray (ASTM B117)	
Stress Relieving	Humidity	
Mechanical Cleaning	Hardness	
Solvent Cleaning	Adhesion	
Ultrasonic Vapor Degreasing	Dimensional/Thickness	
Masking	Porosity/Ferroxyl, Alizarin	
Abrasive Blasting	SEM	
Chemical Cleaning	Cross Section	
Pickling	Stress Testing	
Etching	Metallurgical	
Postplate Operations	Chemical Analysis	
Adhesion Baking	Customer	
Hydrogen Embrittlement Relief Baking	Manage Customer's Pa-	
Heat Treating to harden the deposit	tented Processes	
Assembly	Provide Exclusive Production Work Centers	
Special packaging	uon vvork Centers	

IFT's	Industry
Certif	fications

Registered small business
ITAR Registered
ROHS Compliant
NADCAP Accredited
TS-16949 Registered
AS-9100 Registered
ISO-9002 Registered
ISO-14001 Registered

IFT's Industry Specifications

Specifications
Some of our 1400+ specs
QQ-P-35
AMS QQ-P-35
AMS 2404
AMS 2405
AMS 2700
ASTM A967
ASTM A380
ASTM B 607
ASTM B 656
AMS-C-26074
MIL-C-26074
MIL-DTL-26074
ISO 4527
MIL-S-5002
MIL-DTL-5002
MIL-DTL-32119
MIL-STD-171

IFT's Prime Customers

Boeing
Lockheed Martin
Space X
BAE
Caterpillar
General Dynamics
Rock Island Arsenal
NASA
Honeywell
Remington
Borg-Warner
Raytheon
Federal Mogul
Cooper Bussman

IFT's Services & Capabilities

Electroless Nickel Plating
Type II Class I Anodizing
Dry Film Lubricant Coatings
Phosphate Coating Services
Non-Destructive Testing Services
Passivation Services
Conversion Coating Services
Painting and Special Coatings
Media Blasting

Expanding Capabilities:

IFT frequently works with our customers to add to our capabilities to meet their needs. Our flexibility has allowed us to add processes to our offerings, increase the capacity of our lines for both physically larger parts and larger volume orders, as well as developing entirely new processes to solve the challenging issues our customers face. If you are struggling to find a dynamic growth company with a solution to a problem with part wear or corrosion,

Call IFT Today.



"Improving lives by improving products."

www.IFTWorldwide.com

Contact us for more information

info@iftworldwide.com sales@iftworldwide.com

1302 W. Sample St. 2719 N. Emerson Ave. 3722 Foundation Court

South Bend, IN 46619 Indianapolis, IN 46218 South Bend, IN 46628

Toll Free: 800.207.2516 Toll Free: 1.866.393.6065 Phone: 574.287.0642

Phone: 574.287.2941 Phone: 317.635.8565 Fax: 574.807.8846

Fax: 574.287.2970 Fax: 317.635.8767