

Advanced Surface Technologies, Inc.

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Electrolytic Nickel Plating

We specialize in bright and dull nickel finishes for a diverse range of engineering as well as corrosion protective applications. Decorative and functional, our nickel finishes have durable mechanical properties that allow them to sustain severe operating conditions. They are ideal for varied metal surfaces, including steel, copper & copper-based alloys, as well as zinc.

Our plating solutions strictly adhere to the Mil Spec QQ-N-290 standard nomenclature of class and thickness grades. According to the corrosion resistance, abrasion resistance, thermal expansion, as well as aesthetic requirements of customers, we choose standard plating thicknesses from 0.0016" to 0.0002".

Nickel plating in bright colors is carried out specifically for applications that require high corrosion protection and good aesthetics. For engineering applications, where part deformation and crimping are common, stress free, highly ductile, as well as dull sulfamate nickel finishes are also provided.

[CAPABILITIES](#) · [MIL SPEC QQ-N-290 SPECIFICATIONS](#) · [ADDITIONAL INFORMATION](#)

CAPABILITIES

Substrates	Aluminum Beryllium Brass Bronze Copper Magnesium Stainless Steel Steel Titanium Virtually Any Metal Zinc
Plating Capabilities	Barrel Plating Rack Plating
Plating Thickness	0.0002 to 0.0016 in
Underplate	Copper or Copper Based Alloy
Finish	Bright Dull or Semi-Bright
Standards Met	Mil-Spec QQ-N-290 Nickel Plating (Electrodeposited)
Advantages	Abrasion Resistance Corrosion Resistance Decorative Ductility Low Coefficient of Thermal Expansion
Additional Capabilities	Heat Treatment (Hardness and Hydrogen embrittlement) Masking Parts Stripping Parts-Cleaning Plugging

MIL SPEC QQ-N-290 SPECIFICATIONS

Classes	1. Corrosion Protective Plating 2. Engineering Plating
Thickness Grades	A. 0.0016 inch B. 0.0012 inch C. 0.0010 inch D. 0.0008 inch E. 0.0006 inch F. 0.0004 inch G. 0.0002 inch

ADDITIONAL INFORMATION

Applications	Extruders Food Processing Machinery Heat Exchangers Pipe Fittings Printing Cylinders Pumps Shock Absorbers Valve Components
Industries Served	Aerospace Automotive Communications Computer Electronics Household Appliances Medical Equipment Oil & Gas Equipment Pharmaceutical Recreational Equipment Solar Tool & Die
Certifications	ISO 14001 Certified ISO 9001:2000 Certified
Quality System Features	Dedicated to company-wide continuous improvement In-house laboratory facilities
Environmental System Features	State-of-the-art, computer-controlled waste treatment system
Professional Associations and Awards	<ul style="list-style-type: none"> • Charter member of the Strategic Goals Program, a cooperative effort between the metal finishing industry and EPA <ul style="list-style-type: none"> • Recipient of the Colorado Environmental Leadership Award <ul style="list-style-type: none"> • National Association of Metal Finishers (NAMF) • American Electroplaters and Surface Finishers Society (AESF)
Service Features	A staff that understands the importance of quick response for our customers Production scheduling and production flexibility that minimize turnaround time