

# Industrial Silver Plating

Plated silver is a corrosion resistant coating that does not contain any chromates, and can be applied on ferrous and non-ferrous base materials. Chem Processing, Inc. offers silver plating as an economical, "industrial matte coating" with superior conductivity and corrosion resistance for industrial applications. Chem Processing, Inc. does not provide decorative silver plating.

Silver's conductivity allows for extensive use in electrical components such as bus bars and connectors. Additional advantages of Silver plating are excellent solderability and outstanding lubricity. Industrial silver plating is usually dull, matte or semi-bright in appearance.

## Chem Processing Inc. Silver Electroplating Capabilities:

- **Plating Thickness Range of 0.00005 to 0.0020 inches\***
- **Rack and Barrel Plating Available**
- **Available Masking for Selective Surface Plating**
- **Hydrogen Embrittlement Relief** (Parts with a hardness of 36 Rc or greater will be baked a minimum of 3 hours at 375° F to relieve entrapped hydrogen)
- **Thickness Analysis on a Fischer Technology XDL-B X-Ray Fluorescent Spec**
- **Adhesion Testing**

## Available Specifications:

ASTM B700  
AMS 2410

ISO 4521  
AMS 2411

QQ-S-365  
AMS 2412

## Common Applications of Electroplated Silver:

- **Electrical Components**, coatings on connectors that operate at high critical loadings; bus bars
- **Semi-conductor Lead Frames**, current bonding techniques that require a precious metal
- **Bearing Surfaces**, high load applications in fluids of low lubricity
- **Storage Tanks**, corrosion resistant chemical storage tanks



## Process Control:

- Chem Processing, Inc. has the capability to control metallic and organic contamination that could lead to color deposits, rough plating, and poor adhesion.

\*For special requirements outside these ranges contact a CPI technical representative

*All processes comply with industry specifications including ASTM, SAE, MIL, etc., as applicable for the particular process involved and are performed under ISO 9001:2000/AS9100B standards. Specific company approvals may also apply.*



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*Platings & Coatings for Industry*

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