



## Copper Plating

Copper is a soft, ductile, lustrous metal with a pink hue that exhibits very high thermal and electrical conductivity, Copper readily forms compounds with elements found in the atmosphere including oxygen, carbon and sulphur. Based upon the oxidation state, available moisture and pH of the environment, the compounds formed can have distinctive blue or green hues as opposed to dark brown appearance.

For plating applications, copper is commonly used as an underplating to enhance adhesion of deposits, improve electrical properties, impair migration of alloying elements into the final plated deposit or to improve corrosion resistance of the overall deposit. As a final deposit, copper plating services are used for enhancing the brazing, thermal or electrical conductivity of substrate materials, as a high temperature lubricant, as a heat treatment stop-off, or for jacketing of projectiles. Copper can be plated matte to bright and with a wide range of deposit hardness and ductility.

[CAPABILITIES](#) · [ASTM B 734 & AMS 2418 SPECIFICATIONS](#) · [ADDITIONAL INFORMATION](#)

### CAPABILITIES

Substrates	<ul style="list-style-type: none"> <li>Aluminum Alloys</li> <li>Mild/Stainless Steel</li> <li>Nickel</li> </ul>
Plating Capabilities	<ul style="list-style-type: none"> <li>Wire Plating</li> <li>Rack Plating</li> <li>Barrel Plating</li> </ul>
Additional Capabilities	<ul style="list-style-type: none"> <li>Parts Stripping</li> <li>Oxygen free (OFC) anodes used</li> <li>Nano top coat for protection against tarnishing</li> </ul>
Underplating Options	<ul style="list-style-type: none"> <li>Electroless Nickel</li> <li>Tin</li> </ul>
Standards Met	<ul style="list-style-type: none"> <li>ASTM B 734</li> <li>AMS 2418</li> </ul>
ASTM B 449-93	<ul style="list-style-type: none"> <li><b>Class 25- 25um minimum coating thickness</b></li> <li><b>Class 20- 20um minimum coating thickness</b></li> <li><b>Class 12- 12um minimum coating thickness</b></li> <li><b>Class 5- 5um minimum coating thickness</b></li> </ul>

	<ul style="list-style-type: none"> <li>• <b>Class x- Thickness as specified [um]</b></li> </ul>
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AMS 2418	<ul style="list-style-type: none"> <li>• <b>Type I (Engineering Plating) shall designate a thickness of 0.0005” to 0.0007”</b></li> <li>• <b>Type II (Plating for Masking) shall be nominally 0.002” with no area having a plate thickness of less than 0.0007”</b></li> </ul>
Thickness Classes	<ul style="list-style-type: none"> <li>• 0.00001 – 0.00004 inches in thickness</li> </ul>
Post Treatment Classes	<ul style="list-style-type: none"> <li>• Nano top coat &amp; anti tarnish</li> </ul>

**ADDITIONAL INFORMATION**

Applications	<ul style="list-style-type: none"> <li>• RF Cavity Filter &amp; Lids</li> <li>• Automotive Precision Components</li> <li>• Electric Bus Bars</li> <li>• Electrical Contacts</li> <li>• High-Tech Electronic Components</li> </ul>
Industries Served	<ul style="list-style-type: none"> <li>• Aerospace</li> <li>• Automotive</li> <li>• Telecommunications</li> <li>• Tool &amp; Die</li> </ul>
Certifications	<ul style="list-style-type: none"> <li>• ISO 9001:2015 Certified</li> <li>• ISO 14001:2015 Certified</li> <li>• ISO 45001:2018 Certified</li> <li>• RoHS Compliant</li> <li>• REACH Compliant</li> <li>• SA 8000:2014 Certified</li> </ul>
Quality System Features	<ul style="list-style-type: none"> <li>• Dedicated to company-wide continuous improvement</li> <li>• In-house testing facilities (<b>incl heat treatment test</b>)</li> </ul>
Environmental System Features	<ul style="list-style-type: none"> <li>• ETP &amp; Air scrubbers installed for air &amp; water treatment</li> </ul>

Professional Associations and Awards	<ul style="list-style-type: none"><li>• Member of NEA (Noida Entrepreneur Association)</li></ul>
Service Features	<ul style="list-style-type: none"><li>• A staff that understands the importance of quick response for our customers Production scheduling and production flexibility that minimize turnaround time</li></ul>