

Williams Plating Company, Inc.

About Us

Founded in 1982 and based in Arden, North Carolina, Williams Plating Company, Inc. specializes in small-batch, critical precision metal finishing and chemical processing. We offer rack and barrel plating options, mechanical and chemical cleaning, and bead blasting. Each, quantity based, and minimum charge pricing available. Expedite services available on most orders.

Metal Finishes

| Finish | Specifications | |
|---|--------------------|--------------|
| Copper | MIL-C-14550 | ASTM B734-97 |
| Electroless Nickel | MIL-C-26074 | ASTM B733-04 |
| Sulfamate Nickel | QQ-N-290 | ASTM B689-97 |
| Gold (4 baths) | MIL-DTL-45204 | ASTM B488-11 |
| Silver | QQ-S-365 | ASTM B700-08 |
| Tin (RoHS Compliant) | MIL-T-10727 Type 1 | ASTM B545-13 |
| Tin/Lead Solder Plate (90/10 bright; 60/40 matte) | MIL-P-81728 | ASTM 579-73 |

Substrates Processed

| | |
|-------------------|------------------------------|
| Metalized ceramic | Silver alloys |
| Kovar | Tungsten and Tungsten alloys |
| Monel | Stainless steel |
| Copper alloys | Molybdenum |
| Nickel alloys | Platinum alloys |
| Aluminum | |

Cleaning Processes

| Mechanical Cleaning |
|---------------------|
| Vibratory Finishing |
| Tumbling |
| Bead Blasting |

| Chemical Cleaning | |
|-------------------|-----------------------|
| Chemical Deburr | Chemical Clean/Etch |
| Passivation | Derust and Preserve |
| Copper Bright Dip | Nitriting of Tungsten |
| Kovar Bright Dip | Electropolishing |
| Steel Bright Dip | Ultrasonic Cleaning |

Quality Controls

- Williams Plating Company, Inc. utilizes two XRF machines to test thickness of plated deposits. Resolution measures in micro (μ) inches, with the added ability to identify composition of metal alloys including tin-lead solder plate and other alloy deposits.
- Our wet lab is equipped with Atomic Absorption Analysis for complete analytical control of all process solutions. This analysis provides us with superior process control to maximize the consistency and quality of our products.
- Quality control system is consistent highest quality industry standards. All jobs are inspected in process and are sampled on an AQL basis at final inspection.
- A proactive approach to continual improvement is practiced at all levels of management and production.
- Special inspection and testing is implemented as required by print, contract, or other agreement.

Contact

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