



LABORATORY SCOPE

| Section | Equipment | Use | Standard |
|--|---|---|---|
| Thickness Testing | X-ray Fluorescence Testers | Test thickness of Tin, Tin/Lead, and Nickel plating | Reference ASTM B568 |
| | Kocour Thickness Tester | Test thickness of Copper plating | Reference ASTM B504 |
| Solderability Testing | Solder Pot | Determine the solderability of Tin and Tin/Lead plating | Reference ASTM B545 |
| Steam Age Testing | Steam Vessel and Heating Unit | Determine the solderability of Tin and Tin/Lead plating | Mil. Std 202F, ANSI 002A, ASTM B579-73, Siemens Spec. 14N0345 |
| Adhesion Testing | Scribe tool, Burnishing tool | Use bend test, scribe/grid test, or burnishing test to determine the quality of a plating finish | ASTM B571-97 |
| Plating Bath Analysis | Titration equipment, Hull Cell | Determine the metal and acid levels of various baths in order to maintain plating quality | Metal Finishing Guidebook, Manufacturer Specifications |
| Temperature Measurement | Thermometers | Monitoring the temperature of the solder pot as well as various plating baths | NIST Special Publication 819 |
| Reflectivity | Gardner Tri-Gloss Meter | Determine the reflectivity/gloss of various finishes | Metal Finishing Guidebook |
| Waste Water Quality Measurement | Hach DR3000 Spectrophotometer; Varian Atomic Absorption Spectrophotometer | Determine levels of Copper and Nickel in waste water | USEPA method 8506 & 8150 |
| Oven Testing | Blue M Laboratory Oven | Determine the effects of high temperatures on various finishes including reflow of matte tin deposits | Metal Finishing Guidebook |
| PH Measurement | PH Meters | Determine the pH of various plating baths to maintain plating quality | Metal Finishing Guidebook |
| Surface Roughness | Hommel Model T100 Surface Roughness Gauge | Check surface roughness of customer base metal and finished plated surfaces | ISO 4287:1997 |

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Selective Plating, Inc. 240 South Lombard Road Addison IL 60101 Tel 630-543-1380 Fax 630-543-1392

www.SelectivePlatingInc.com