



## LABORATORY SCOPE

Section	Equipment	Use	Standard
<b>3.1 Thickness Testing</b>	X-ray Fluorescence Testers	Determine thickness and content of plated surfaces	Reference ASTM B568
	Coulometric Thickness Tester	Test thickness of plated surfaces	Reference ASTM B504
<b>3.2 Solderability Testing</b>	Solder Pot	Determine the solderability of Tin plating	Reference ASTM B545
<b>3.3 Steam Age Testing</b>	Steam Vessel and Heating Unit	Determine the solderability of Tin plating	Mil. Std 202F, ANSI 002A, ASTM B579-73, Siemens Spec. 14N0345
<b>3.4 Adhesion Testing</b>	Hand tools	Use bend test, scribe/grid test, or burnishing test to determine the quality of a plating finish	ASTM B571-97
<b>3.5 Plating Bath Analysis</b>	Titration equipment, Hull Cell	Determine levels of various bath components to maintain process control	Metal Finishing Guidebook, Manufacturer Specifications
<b>3.6 Temperature Measurement</b>	Thermometers	Monitoring the temperature of the solder pot as well as various plating baths	NIST Special Publication 819
<b>3.7 Reflectivity</b>	Gloss Meter	Determine the reflectivity/gloss of various finishes	Metal Finishing Guidebook
<b>3.8 Waste Water Quality Measurement</b>	Hach DR3000 Spectrophotometer	Determine levels of Copper and Nickel in waste water	USEPA method 8506 & 8150
<b>3.9 Oven Testing</b>	Convection and IR Ovens	Determine the effects of high temperatures on various finishes	ASTM B545
<b>3.10 PH Measurement</b>	PH Meters	Determine the pH of various plating baths to maintain plating quality	ASTM E70
<b>3.11 Surface Roughness</b>	Profilometer	Check surface roughness of customer base material and finished plated surfaces	ISO 4287:1997

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**An ISO 9001:2015 registered company**

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