



LABORATORY SCOPE

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

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