

INSTRUMENTATION LAB

EXPANDED FULL SERVICE



SUPERIOR TESTING FOR QUANTIFYING & IDENTIFYING

Upon entering our world headquarters in Charlotte, North Carolina, you can immediately sense our commitment when our comprehensive instrumentation laboratory greets you. Beautifully showcasing the latest instrumentation, it is the true center of the entire technical department by supporting all facets of our research and service operations.



FROM CHROMATOGRAPHY TO TORQUE TENSION

Pavco® offers a wide range of lab testing with superior analytical equipment in the instrumentation lab. Every piece of equipment uses a different method to produce results specific to the needs of our manufacturers and clients.



ANALYTICAL LAB EQUIPMENT

High Performance Liquid Chromatography (HPLC)	Quantifies organic additives and contaminants.
Ion Chromatography (IC)	Quantifies inorganic additives and contaminants.
Fourier Transform Infrared Spectroscopy (FTIR)	Identifies unknown organic materials.
X-Ray Fluorescence (XRF)	Quantifies metallic additives and plating thickness.
Microwave Plasma Atomic Emission Spectroscopy (MP-AES)	Quantifies metallic additives and contaminants.
Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES)	Quantifies metallic additives and contaminants.
Ultraviolet-Visible Spectroscopy (UV-Vis)	Quantifies transition metals and organic compounds.
Scanning Electron Microscopy (SEM)	Studies surface topography and composition of materials.
Cross-Sectional Analysis	Cutting, mounting, and polishing of customer samples.
Cyclic Voltametric Stripping Analysis (CVS)	Quantifies organic additives in plating baths.
Color Spectrophotometry	Quantifies the color of metallic surfaces.
Torque Tension	Quantifies the coefficient of friction between plated surfaces.
Tensiometry/Stalagometry	Quantifies the surface tension of fluids.
Hull Cell Testing	Mimics a customer's plating bath for quality testing.
Step Testing	Simultaneous thickness and electrochemical potential determination.
Salt Spray	Accelerated method for quantification of protection against corrosion.
Cyclic Testing	Accelerated method for quantification of protection against corrosion.

PAVCO®
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