

EMS Analytical Labs

Price Sheet updated 04/27/12

Plating Baths- (normal turn-around is between 24 and 48 hours)

Copper (one or two-additives)	\$70.00		
Copper (three-additives)	\$85.00		
Tin sulfate bath	\$55.00		
Tin or Tin/lead w/one organic	\$55.00	(msa bath)	
Tin or Tin/lead w/two organics	\$65.00	(msa bath)	
Tin or Tin/lead w/three organics	\$80.00	(msa bath)	
Nickel	\$55.00		
Cyanide gold	\$50.00		
Sulfite gold	\$60.00		
Electroless nickel	\$35.00		
Immersion Gold	\$35.00		
Palladium catalysts	\$35.00		
Permanganate	\$35.00	by UV analysis	\$50.00 by titration
Glass etch solutions	\$50.00		
Silver Strike	\$40.00		add \$25 for carbonates
Silver Plate	\$50.00		add \$25 for carbonates
Total organic carbon (TOC)	\$50.00		add \$25 if formaldehyde titration is needed
Metallic impurities by AA	\$15.00	per element	
Impurities w/other analysis by AA	\$10.00	per element either in volume or combined with other analysis on the same solution	
Metallic impurities by ICP	\$40.00	per element	
ICP survey	\$150.00	(semi-quantitative analysis of 35 elements including sulfur and phosphorus)	
TotalScan	\$200.00	ICP survey with TOC analysis	
Acid Copper Package	\$210.00	Copper analysis with TOC, trace metals, tensile strength, elongation, and purity	
Brass	\$60.00	(no Hull cell analysis)	add \$25 for carbonates
Bronze	\$60.00	(no Hull cell analysis)	add \$25 for carbonates
Copper cyanide	\$40.00		add \$25 for carbonates add \$15 for Rochelle salts
Pyrophosphate Copper	\$50.00		add \$25 for ammonia
Chrome	\$60.00		add \$25 for fluoride
Trivalent chrome	\$50.00		
Solder/Tin purity & composition	\$125.00	includes composition and trace contaminants	
Gravimetric gold assay	\$75.00		
Total Cyanide by distillation	\$75.00		add \$50 to include amenable cyanide

Additive Analysis

CVS on copper bath	\$25.00	per component.
CVS on tin or solder bath	\$35.00	
CVS on Multibond	\$25.00	
Methylene Chloride Extraction	\$30.00	

Physical Tests

Tensile & Elongation of Copper	\$75.00	
Copper purity	\$50.00	
Gold Hardness & Purity	\$100.00	If we plate the gold sample, we keep the gold solution.
Gold hardness or Purity	\$60.00	
Gold Porosity	\$75.00	nitric acid vapor or flowers of sulfur method
Cross-section analysis	\$75.00	per mount with up to two plugs per mount. Includes digital pictures and thickness measurements
Nickel Stress analysis	\$100.00	includes three repetitions
Nickel or Copper Hardness	\$60.00	add \$40 if we plate it for you
Single trace metal in a Deposit	\$50.00	(We can also detect sulfur or phosphorus in a deposit or anode- add \$50)