

EMS Analytical Labs, Inc

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Price Sheet

updated 1/2/24

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

Copper (one or two-additives)	\$100.00		
Copper (three-additives)	\$135.00		
CVS analysis	\$40.00	Per component	
Tin sulfate bath	\$60.00	includes analysis of additives by CVS or other methods	
Tin/lead w/one organic	\$70.00		
Tin or Tin/lead w/two organics	\$80.00		
Tin or Tin/lead w/three organics	\$100.00		
Nickel	\$55.00		
Wood's Nickel Strike	\$30.00		
Cyanide gold	\$60.00	add \$20 for buffer or auxiliary salts	Add \$25 for ICP metal
Sulfite gold	\$60.00		
Electroless nickel	\$50.00		
Immersion Gold	\$35.00	add \$15 each for nickel or copper by AA.	
Palladium catalysts	\$50.00		
Permanganate	\$40.00	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
Immersion Silver	\$60.00		
Total organic carbon (TOC)	\$60.00		add \$25 if formaldehyde titration is needed
Metallic impurities by AA	\$20.00	Per element	
Impurities w/other analysis by AA	\$10.00	per element for 4 metals or more	
Metallic impurities by ICP	\$40.00	Per element	
ICP survey	\$175.00	(semi-quantitative analysis of 35 elements)	
TotalScan	\$225.00	ICP survey with TOC analysis	
Acid Copper Package	\$300.00	Copper analysis with TOC, trace metals, tensile, elongation, and copper purity	
Brass	\$60.00	(no Hull cell analysis)	add \$25 for carbonates
Bronze	\$60.00	(no Hull cell analysis)	add \$25 for carbonates
Cadmium	\$60.00	(no Hull cell analysis)	add \$25 for carbonates
Copper cyanide	\$45.00	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		
Zinc-Nickel	\$60.00		add \$25 for carbonates
Solder/Tin purity & composition	\$135.00	includes composition and trace contaminants	
Gravimetric gold assay	\$110.00		
Total Cyanide by distillation	\$85.00		add \$50 to include amenable cyanide
pH only	\$5.00		

2735 Saturn Street, Brea, Ca. 92821

Phone: (714) 279-1565 FAX: (714) 279-1568

www.emsanalytical.com james@emsanalytical.com

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Specific gravity (Baume) only	\$10.00
Chloride by ISE	\$20.00
Basic titration	\$20.00
Complex Titration	\$30.00
UV analysis (basic, no filtering)	\$30.00
Hull cell analysis (basic)	\$25.00

Additive Analysis

CVS on copper bath	\$40.00	per component.
CVS on tin or solder bath	\$40.00	
Methylene Chloride Extraction	\$35.00	(EP 1100 and Cuposit SR, and MaCuposit Omega G)

Physical Tests

Tensile & Elongation of Copper	\$90.00	DLA certified, turnaround is 7 working days add \$60 for a two-day turnaround
Expedited T&E		
Copper purity	\$60.00	DLA certified
Peel strength	\$60.00	DLA certified (for a lot of up to 8 samples)
Gold Hardness & Purity	\$140.00	add \$40 if we plate it for you
Gold hardness or Purity	\$70.00	add \$40 if we plate it for you
Gold Porosity	\$90.00	nitric acid vapor or flowers of sulfur method
Gold Porosity	\$100.00*	sulfur dioxide/sulfurous acid method.*(\$100 set-up charge + \$30/lot)
Cross-section analysis	\$75.00	per mount with up to two plugs per mount. Includes digital pictures and thickness measurements
Nickel Stress analysis (tabs)	\$120.00	includes three repetitions
Nickel Stress by contractometer	\$120.00	
Nickel or Copper Hardness	\$70.00	add \$40 if we plate it for you
Single Element in a Deposit	\$70.00	(This includes sulfur, phosphorus, or metals in a deposit or anode)
Alloy composition	*	varies by number of elements to be analyzed
Wet Tape Adhesion test	\$45.00	2 panels are tested.
Adhesion - bend test	\$25.00	
Salt Fog/Salt Spray Corrosion	\$0.28	per hour \$55 minimum
Panels for Salt Fog Testing	*	varies by dimensions and alloy
Coating Weight	\$60.00	3 panels are tested
Taber Abrasion Test	\$130.00	2 panels are tested
Hydrogen Embrittlement	\$150.00	for a set of 4. We can also provide notch bars for a price.

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