



EMS Analytical Labs, Inc. Price Sheet updated 12/12/2024.

Prices in effect on 01/01/2025

We are putting a \$55 minimum charge in place. Often times with single samples it costs more to prepare paperwork and send the report, than it costs to run the testing.

Most tests can be expedited for an extra charge of 50% of the base price.

Acid Copper (two-part additive)	\$120.00	with one or two additives by CVS, includes inorganics
Acid Copper (three-part additive)	\$170.00	with three additives by CVS or CVS and UV/Vis, includes inorganics
Acid Copper (with no CVS)	\$50.00	with or without Hull cell analysis
CVS analysis	\$50.00	Per component. Includes stability index for CuPulse
CVS Analysis (Uyemura EPL)	\$70.00	for EPL Leveler only
Tin sulfate bath	\$70.00	includes analysis of additives by CVS or other methods
Tin/lead w/one organic	\$80.00	includes analysis of additives by CVS or other methods
Tin or Tin/lead w/two organics	\$100.00	includes analysis of additives by CVS or other methods
Tin or Tin/lead w/three organics	\$120.00	includes analysis of additives by CVS or other methods
Electrolytic Nickel	\$55.00	add \$25 for wetter
Wood's Nickel Strike	\$40.00	
Electroless nickel	\$50.00	add \$25 for orthophosphite
Cyanide gold	\$60.00	add \$20 for buffer or auxiliary salts Add \$25 for ICP metal
Sulfite gold	\$60.00	
Immersion Gold	\$35.00	add \$15 each for nickel or copper by AA.
Palladium catalysts	\$60.00	
Permanganate	\$50.00	by UV analysis \$60.00 by titration
Glass etch solutions	\$50.00	
Cupric Chloride Etch	\$80.00	
Silver Strike	\$50.00	add \$25 for carbonates
Silver Plate	\$60.00	add \$25 for carbonates
Immersion Silver	\$60.00	
Total organic carbon (TOC)	\$75.00	add \$25 if formaldehyde titration is needed
Metallic impurities by AA	\$20.00	Per element
Impurities w/other analysis by AA	\$15.00	per element for 4 metals or more
Metallic impurities by ICP	\$50.00	Per element
ICP survey	\$200.00	(semi-quantitative analysis of 35 elements)
TotalScan	\$250.00	ICP survey with TOC analysis
Acid Copper Package	\$345.00	Copper analysis with TOC, trace metals, tensile, elongation, and copper purity add \$50 for a three component additive solution
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	\$150.00	includes composition and trace contaminants
Gravimetric gold assay	\$125.00	
Total Cyanide by distillation	\$90.00	



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Add-on Items

Chloride by ISE	\$25.00	
Basic titration	\$20.00	
Complex Titration	\$30.00	(complex titrations can include filtering and /or boiling of solutions)
UV analysis (basic, no filtering)	\$30.00	
Hull cell analysis (basic)	\$25.00	add \$5 for each additional panel run.
Total Dissolved Solids (TDS)	\$25.00	
Total Suspended Solids (TSS)	\$35.00	
Silicates	\$30.00	
pH only	\$10.00	
Specific gravity (Baume) only	\$10.00	
Gravimetric gold assay	\$125.00	
Total Cyanide by distillation	\$90.00	

Additive Analysis

CVS on copper bath	\$50.00	per component.
CVS on tin or solder bath	\$50.00	
Methylene Chloride Extraction	\$50.00	(EP 1100 and Cuposit SR, and MaCuposit Omega G)

Physical Tests

Tensile & Elongation of Copper Expedited T&E	\$90.00	DLA certified, turnaround is 7 working days add \$60 for a two-day turnaround
Copper purity	\$60.00	DLA certified
Peel strength	\$75.00	DLA certified (for a lot of up to 8 samples)
Gold, Nickel, or Silver Hardness	\$100.00	(\$75 for cross-section + \$25 for measurements) add \$40 if we plate it for you
Gold or Silver Purity	\$80.00	add \$40 if we plate it for you
Gold Porosity	\$100.00	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	
Single Element in a Deposit	\$80.00	(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. Panels must arrive painted.
Adhesion - bend test	\$25.00	
Salt Fog/Salt Spray Corrosion	\$0.30	per hour. \$60 minimum charge. minimum
Panels for Salt Fog Testing	*	varies by dimensions and alloy
Coating Weight	\$60.00	3 panels are tested
Taber Abrasion Test	\$140.00	2 panels are tested (Subcontracted)
Hydrogen Embrittlement	\$225.00	for a set of 4. We can also provide notch bars. (Subcontracted)
Solderability	\$30.00	per part - for various specifications