EMS Analytical Labs, Inc

December 15, 2022

Dear Customer,

Bronze

Cadmium

As we are all feeling the effects of inflation, we will be instituting a price increase effective January 1st, 2023. Only a few items are increasing in price. Please see the schedule below and feel free to contact us if you have any questions. Thank you for your business.

Price

EMS Analytical Labs		Shee	t	updated 12/15/22		
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 addit	tives by CVS	or other methods		
Tin or Tin/lead w/one organic	\$70.00					
Tin or Tin/lead w/two						
organics	\$80.00					
Tin or Tin/lead w/three	# 400.00					
organics	\$100.00					
Nickel	\$55.00					
Wood's Nickel Strike	\$30.00					
Cyanide gold	\$60.00	add \$20 for buffer or aux	iliary 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 t	itration		
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 impurites by AA	\$20.00	Per element				
Impurites w/other analysis by AA	\$10.00	per element for 4 metals or more				
Metallic impurites 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 TO copper purity	C, trace meta	ls, tensile, elongation, and		
Brass	\$60.00	(no Hull cell analysis)	add \$25 for	carbonates		
_	400.00	. , ,	,			

2735 Saturn Street, Brea, Ca. 92821 Phone: (714) 279-1565 FAX: (714) 279-1568 www.emsanalytical.com james@emsanalytical.com

\$60.00 (no Hull cell analysis)

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add \$25 for carbonates

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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			
Specific gravity (Baume) only	\$10.00			
Chloride by ISE	\$20.00			
Basic titration	\$20.00			
UV analysis (basic, no	400.00			
filtering)	\$30.00			
Hull cell analysis (basic)	\$25.00			
Additivo Analysis				
Additive Analysis	\$40.00			
CVS on copper bath CVS on tin or solder bath	\$40.00	per component.		
Methylene Chloride	φ40.00			
Extraction	\$35.00	(EP 1100 and Cuposit SR, and	MaCuposit Omega G)	
Extraorion	φοσ.σσ	(E. 1700 and Capcon Crt, and	Madapook omoga o	
Physical Tests				
Tensile & Elongation of				
Copper	\$85.00	DLA certified, turnaound is 7 working days		
Expedited T&E		add \$60 for a two-day turnaround		
Copper purity	\$55.00	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 mou	unt	
Oroso scollori dridiyolo	Ψ70.00	Includes digital pictures and thickness		
Nickel Stress analysis (tabs)	\$120.00	includes three repetitions	measurements	
Nickel Stress by	Ψ120.00	includes three repetitions		
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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