



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ACCU LABS INC.
3433 West 48th Place
Chicago, IL 60632
Peter Tremmel Phone: 773 523 3100

CHEMICAL

Valid To: June 30, 2025

Certificate Number: 2558.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on plating bath solutions and waste water:

<u>Test</u>	<u>Test Method(s)</u>
Plating Bath and Product Analysis	
Additives and Other Constituents in Plating Solutions by Titration	*Accu-Labs Plating Analysis Manual, Titration Procedures: 500 Aluminum Anodizing, Sulfuric Acid 510 Chromic Acid, Aluminum 520 Cyanide Brass Solutions 530 Aluminum, Bright Dip Solutions 533 Accu-Labs Alcor #570 Aluma Seal 540 Acid Cadmium Solutions 550 Cadmium Cyanide Solutions 560 Carbonate Impurities In Plating Solutions 570 Chromate, Special 580 Hexavalent Chrome Solutions 590 Trivalent Chromate Solutions 600 Acid Copper Solutions 610 Copper Cyanide Solutions 620 Fluoride Catalyst in Chrome Solutions 630 Black Nickel Solutions 640 Nickel (Watts) Solutions 650 Nickel Carrier Solutions 660 Nickel (Woods) Strike Solutions 670 Nickel Sulfamate Solutions 680 Nickel Sulfamate Strike Solutions 690 Customer Sample of Electroless Nickel Solutions 700 Cleaners, Acids & Pretreatment 710 Silver Cyanide 720 Block & Olie Chromates 730 Fluoboric Solder 740 MSA Solder 750 Tin Bismuth 760 Tin Fluoborate 770 Stannate Tin 780 Tin Sulfate

<u>Test</u>	<u>Test Method(s)</u>
Additives and Other Constituents in Plating Solutions by Titration (con't)	800 Surface Tension by Stalagmometer 810 Alkaline Zinc 820 Alkaline Zin-Iron 830 Zinc Chloride 840 Zinc Chloride-Ammonia Free 850 Zinc Cyanide 890 Copper Fluoborate
Metals in Plating Solutions by Complexometric Titration	Accu-Labs Plating Analysis Manual, Complexometric Procedures (*See above)
Physical	
Hull Cell Analysis	Accu-Labs SOP 900
pH	ASTM E70 pH of Aqueous Solutions with Glass Electrode; SM 4500H+ pH Measurement
Specific Gravity	Accu-Labs SOP 931
Sulfate by Centrifuge	Accu-Labs SOP 580
Surface Tension	Accu-Labs SOP 800; EPA Method 306B Determination of Surface Tension
<u>Material Corrosion Testing (Material Conditioning and Visual Examination)</u>	
Corrosion & Salt Spray	ASTM B117 Practice for Operating Salt Spray (Fog); ISO 9227:2006(E) Neutral Salt Spray; MIL-DTL-81706, Chemical Conversion Materials for Coating Aluminum and Aluminum Alloys, par. 4.5.1; MIL-DTL-5541 Chemical Conversion Coatings on Aluminum and Aluminum Alloys, par. 4.4.1; Delphi Specification Delphi DX900158
Hexavalent Chromium Spot Test	ISO 3613, par. 6.5.2



Accredited Laboratory

A2LA has accredited

ACCU LABS INC.

Chicago, IL

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 1st day of August 2023.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2558.01
Valid to June 30, 2025

For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.