



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ACCU LABS, INC.  
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Chicago, IL 60632  
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CHEMICAL

Valid To: June 30, 2019

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:

**Plating Bath and Product Analysis**

Titration

<u>Test</u>	<u>Test Method</u>
Additives and other Constituents in Plating Solutions by Titration	Accu-Labs Plating Analysis Manual, Titration Procedures
Metals in Plating Solutions by Complexometric Titration	Accu-Labs Plating Analysis Manual, Complexometric Procedures

Physical

<u>Test</u>	<u>Test Method</u>
Hull Cell Analysis	Accu-Labs SOP 900
Specific Gravity	ASTM D891 for Specific Gravity, Method A
Sulfate by Centrifuge	Accu-Labs SOP 580
Surface Tension	EPA Method 306B Determination of Surface Tension

**Plating Bath Analysis and Environmental Testing**

Metals by Atomic Absorption Flame

<u>Test</u>	<u>Test Method(s)</u>
Aluminum	EPA 202.1; SM 3500
Bismuth	SM 3500
Cadmium	EPA 213.1; SM 3500
Chromium	EPA 218.1; SM 3500
Cobalt	EPA 219.1; SM 3500
Copper	EPA 220.1; SM 3500
Iron	EPA 236.1; SM 3500

<u>Test</u>	<u>Test Method(s)</u>
Lead	EPA 239.1; SM 3500
Nickel	EPA 249.1, 7520; SM 3500
Selenium	SM 3500
Silicon	SM 3500
Silver	EPA 272.1, 7760; SM 3500
Tin	EPA 282.1, 7870; SM 3500
Zinc	EPA 289.1, 7950; SM 3500

**Environmental Testing**

<u>Test</u>	<u>Test Method(s)</u>
Cyanide by Spectrophotometry	SM 4500 CN- Cyanide; EPA 335.2 & EPA 9014 Cyanide Titrimetric & Manual Spectrophotometry; EPA 9010C Cyanide Distillation
pH	ASTM E70 pH of Aqueous Solutions with Glass Electrode; SM 4500H+ pH Measurement; SM 9040C pH Electro Measurement

**Material Corrosion Testing (Material Conditioning and Visual Examination)**

<u>Test</u>	<u>Test Method(s)</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. 5.5





## 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 17025:2005 *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 8 January 2009).



Presented this 4<sup>th</sup> day of October 2017.

A handwritten signature in black ink, written over a horizontal line.

President and CEO  
For the Accreditation Council  
Certificate Number 2558.01  
Valid to June 30, 2019

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