



## *Accredited Laboratory*

A2LA has accredited

### **A-LAB CORPORATION**

*Dayton, OH*

for technical competence in the field of

### **Mechanical 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 28<sup>th</sup> day of July 2020.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 0291.01  
Valid to July 31, 2022

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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

A-LAB CORPORATION  
3050 Dryden Road  
Dayton, OH 45439  
John E. Williams Phone: 937 293 0333

MECHANICAL

Valid To: July 31, 2022

Certificate Number: 0291.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following types of tests on metals, alloys and fasteners:

<u>Test</u>	<u>Test Method(s)</u>
Microhardness - Knoop & Vickers (100 & 500 HK, 100 & 500 HV)	ASTM E384
Hardness	
Rockwell (A, B, C, 15N, 30N, 45N, 15T, 30T, 45T)	ASTM E18, E140
Brinell 500, 1500, 3000 Kg	ASTM E10
Tensile (Room Temperature, Up to 200k lbs)	ASTM A370, B557, E8/E8M
Compression	ASTM A370 Sect. A 2.5.1.3
Impact (Charpy) (-320 to 212° F, Up to 127 ft-lbs)	ASTM E23
Salt Spray	ASTM B117
Bend	ASTM E290
Weld/Welder Qualification	Using the methods listed on this scope and scope 0291.03 in accordance with ASME Sec. IX; AMS 1595 (Canceled 2002) <sup>1</sup> ; AWS: D1.1/D1.1M, D1.2/D1.2M, D1.5/D1.5M, D17.1/D17.1M
<u>Metallographic Evaluation</u>	
Preparation	ASTM E3
Microetch	ASTM E407
Macroetch	ASTM E340

<u>Test</u>	<u>Test Method(s)</u>
Metallographic Evaluation (cont.)	
Decarburization	ASTM E1077, F2328; SAE J121(Canceled 2013) <sup>1</sup> , J423
Grain Size	ASTM E112 Practice A & D, E930, E1181
Case Depth	SAE J423
Nodularity	ASTM A247
Inclusion Ratings	ASTM E45 (Methods A, E)
Plating Thickness	ASTM B487
IG Corrosion Susceptibility	ASTM A262 (Methods A, E)
Macrostructure	ASTM E381
Density/Porosity	ASTM B963
Failure Analysis	Using the methods listed on this scope and on scopes 0291.02 and 0291.03 in accordance with ASM Handbook 11
Scanning Electron Microscopy	
SEM/EDS Materials Analysis and Characterization	A-Lab QP 2-24, 2-25; ASTM E1508

<sup>1</sup> NOTE: This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.



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### **A-LAB CORPORATION**

*Dayton, OH*

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 28<sup>th</sup> day of July 2020.

A blue ink signature of the Vice President of Accreditation Services, written over a horizontal line.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 0291.02  
Valid to July 31, 2022

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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

A-LAB CORPORATION  
3050 Dryden Road  
Dayton, OH 45439  
John E. Williams Phone: 937 293 0333

CHEMICAL

Valid To: July 31, 2022

Certificate Number: 0291.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on metals, alloys and fasteners:

**Test**

**Test Method(s)**

Spectroscopy

ICP (Ag, Al, As, B, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Nb, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Ta, Te, V, W, Y, Zn)

A-Lab Procedure OP 1-9

Wet Chemistry

Cr (Titration)

ASTM E353, Sections 2.12 to 2.20

Cu (Electro Deposition)

ASTM E53

Combustion – Carbon Sulfur

ASTM E1019

Inert Gas Fusion – Nitrogen

ASTM E1019

Galvanized Coating Weight

ASTM A90/A90M

On the following materials:

Low and medium alloy steels, stainless steels, aluminum alloys, copper alloys and magnesium alloys



## *Accredited Laboratory*

A2LA has accredited

### **A-LAB CORPORATION**

*Dayton, OH*

for technical competence in the field of

### **Nondestructive 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 28<sup>th</sup> day of July 2020.

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

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 0291.03  
Valid to July 31, 2022

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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

A-LAB CORPORATION  
3050 Dryden Road  
Dayton, OH 45439  
John E. Williams Phone: 937 293 0333

NONDESTRUCTIVE

Valid To: July 31, 2022

Certificate Number: 0291.03

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with A2LA's R212 – Specific Requirements: Nondestructive Testing and Inspections), accreditation is granted to this laboratory to perform the following tests on metals, alloys and fasteners:

<u>Test</u>	<u>Test Method(s)</u>
Liquid Penetrant (Fluorescent)	ASTM E165/E165M, E1417/E1417M, E1418; MIL-STD-6866 (Canceled 1996) <sup>1</sup> ; RRP 58003; P3TF2, P3TF47
Magnetic Particle (Bench Wet Fluorescent) (Yoke Dry Visible and Wet Fluorescent)	AMS 2640J (Canceled 1996) <sup>1</sup> ; ASTM E709, E1444/E1444M; P3TF9, P3TF48; IFC40-932-01E
Radiography (X-ray Film)	ASTM E94/E94M, E1742/E1742M, E2104; P3TF5; RRP58006
Computed Radiography	ASTM E1453, E2002, E2007, E2339, E2445/E2445M
Ultrasonic (Contact Straight and Angle Beam)	AMS STD-2154; ASTM A745/A745M, A388/A388M, A609/A609M

On the following materials:

Steel, cast iron, aluminum, titanium, magnesium, inconel, and monel

<sup>1</sup> NOTE: This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.