

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).

SEAL MENTON A 2LA

Presented this 28th day of July 2020.

Vice President, Accreditation Services For the Accreditation Council Certificate Number 0291.01

Valid to July 31, 2022



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 <u>metals</u>, <u>alloys and fasteners</u>:

ASTM E384

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

Microhardness - Knoop & Vickers

(100 & 500 HK, 100 & 500 HV)

Hardness

Rockwell ASTM E18, E140

(A, B, C, 15N, 30N, 45N, 15T, 30T, 45T)

Brinell 500, 1500, 3000 Kg ASTM E10

Tensile ASTM A370, B557, E8/E8M

(Room Temperature, Up to 200k lbs)

Compression ASTM A370 Sect. A 2.5.1.3

Impact (Charpy) ASTM E23

(-320 to 212° F, Up to 127 ft-lbs)

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)¹; AWS: D1.1/D1.1M,

D1.2/D1.2M. D1.5/D1.5M, D17.1/D17.1M

Metallographic Evaluation

Preparation ASTM E3

Microetch ASTM E407

Macroetch ASTM E340

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Test Method(s)

Metallographic Evaluation (cont.)

Decarburization ASTM E1077, F2328;

SAE J121(Canceled 2013)¹, 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

¹ 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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Accredited Laboratory

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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 28th day of July 2020.

Vice President, Accreditation Services For the Accreditation Council Certificate Number 0291.02

Valid to July 31, 2022



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 <u>metals</u>, <u>alloys and fasteners</u>:

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

Spectroscopy

ICP (Ag, Al, As, B, Be, Bi, Ca, Cd, Co, Cr, Cu, A-Lab Procedure OP 1-9

Fe, Mg, Mn, Mo, Nb, Ni, P, Pb, Sb, Se, Si, Sn, Sr,

Ta, Te, V, W, Y, Zn)

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

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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 28th day of July 2020.

Vice President, Accreditation Services For the Accreditation Council Certificate Number 0291.03

Valid to July 31, 2022



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 <u>metals</u>, alloys and <u>fasteners:</u>

<u>Test</u>	Test Method(s)
Liquid Penetrant (Fluorescent)	ASTM E165/E165M, E1417/E1417M, E1418; MIL-STD-6866 (Canceled 1996) ¹ ; RRP 58003; P3TF2, P3TF47
Magnetic Particle (Bench Wet Fluorescent) (Yoke Dry Visible and Wet Fluorescent)	AMS 2640J (Canceled 1996) ¹ ; 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

¹ 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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