



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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

MECHANICAL

Valid To: September 31, 2026

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 tests on metals, alloys and fasteners:

Test

Test Method(s)

Hardness

Microhardness - Knoop & Vickers
(100 & 500 HK, 100 & 500 HV)

ASTM E384

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

ASTM E18, E140

Brinell (500, 1500, 3000 Kg)

ASTM E10

Mechanical

Tensile
(Room Temperature, Up to 200k lbs.)
(Non-Ambient, -65 to +300 °F,
Up to 33,500 lbs.)

ASTM A370, B557, E8/E8M
ASTM E21

Compression

ASTM A370 Sect. A 2.5.1.3

Impact (Charpy)
(-320 to 212° F, Up to 127 ft-lbs)

ASTM E23

Welding / Failure Analysis

Weld/Welder Qualification

Using the methods listed on this scope and scope
0291.03 in accordance with ASME Sec. IX;
AMS 1595 (Canceled 2002);
AWS: D1.1/D1.1M, D1.2/D1.2M, D1.5/D1.5M,
D1.6, D17.1/D17.1M

Bend

ASTM E290

Fillet Weld Break Test

AWS D1.1/D1.1M, D1.2/D1.2M, D1.5/D1.5M,
D1.6/D1.6M, D17.1/D17.1M

Test**Test Method(s)****Welding / Failure Analysis continued**

Failure Analysis

Using the methods listed on this scope and on scopes 0291.02 and 0291.03 in accordance with ASM Handbook 11.

Laser Induced Breakdown Spectroscopy (LIBS)

A-Lab Procedure 2-36

Metallographic Evaluation

Preparation

ASTM E3

Microetch

ASTM E407

Macroetch

ASTM E340

Macrostructure

ASTM E381;
AWS: D1.1/D1.1M, D1.2/D1.2M, D1.5/D1.5M,
D1.6, D17.1/D17.1M

Case Depth

SAE J423

Decarburization

ASTM E1077, F2328;
SAE J121 (Canceled 2013), J423

Grain Size

ASTM E112 Practice A & D, E930, E1181

Inclusion Ratings

ASTM E45 (Methods A, E)

Nodularity

ASTM A247

Plating Thickness

ASTM B487

Volume Fraction (Optical Density)

ASTM E562

Corrosion

Salt Spray

ASTM B117

IG Corrosion Susceptibility

ASTM A262 (Methods A, E)



Accredited Laboratory

A2LA has accredited

A-LAB CORP.

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 9th day of July 2024.

A blue ink signature of Mr. Trace McInturff, Vice President of Accreditation Services.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0291.01
Valid to September 30, 2026
Revised to July 15, 2026

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