



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, 2024

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:

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)

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

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

Failure Analysis

Laser Induced Breakdown Spectroscopy (LIBS)

Test Method(s)

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

A-Lab Procedure 2-36

Metallographic Evaluation

Preparation

Microetch

Macroetch

Macrostructure

Case Depth

Decarburization

Grain Size

Inclusion Ratings

Nodularity

Plating Thickness

Volume Fraction (Optical Density)

ASTM E3

ASTM E407

ASTM E340

ASTM E381

SAE J423

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

ASTM E112 Practice A & D, E930, E1181

ASTM E45 (Methods A, E)

ASTM A247

ASTM B487

ASTM E562

Corrosion

Salt Spray

IG Corrosion Susceptibility

ASTM B117

ASTM A262 (Methods A, E)



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 30th day of May 2022.

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, 2024

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