



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ANDERSON LABORATORIES, INC.  
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MECHANICAL

Valid To: March 31, 2026

Certificate Number: 0711.02

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 and metal alloys:

<b><u>Test(s):</u></b>	<b><u>Test Method(s):</u></b>
Tensile	ASTM A370, ASTM A770/A770M, ASTM E345, ASTM E646, ASTM E8/E8M, ASTM E517; DIN EN 895; ISO 6892-1; JIS Z 2241
Impact	ASTM A370, ASTM E23; ISO 148-1; JIS Z 2242
Bend Test	ASTM A370, ASTM E190, ASTM E290, ASTM A990, ASTM A494, ASTM B369; BS EN 910
Brinell (500, 1500, 3000) kgf	ASTM A370, ASTM E10
Microhardness Vickers: HV100, HV200, HV300, HV500, HV1000 Knoop: HK100, HK200, HK300, HK500	ASTM B578, ASTM E92, ASTM E384; ISO 6507-1; NACE MR0103, NACE MR0105
Macro Vickers (HV5, HV10, HV20, HV30)	ASTM E92
Rockwell (15N, 30N, 45N, 15T, 30T, 45T, A, B, C, L)	ASTM A370, ASTM E18; ISO 6508-1
Leeb Hardness <sup>1</sup> 300 to 900 HL, 30 to 99 HRBW, 20 to 65 HRC, 80 to 650 HBW	ASTM A956/A956M

**Test(s):**

Welding Procedure and Performance Qualification

**Test Method(s):**

ASME B31.1, ASME B31.3, ASME B31.5, ASME B31.9, ASME Section IX BPVC; ASTM A488/A488M; AWS B4.0, AWS D1.1/D1.1M, AWS D1.2/D1.2M, AWS D1.3/D1.3M, AWS D1.4/D1.4M, AWS D1.5/D1.5M, AWS D1.6/D1.6M, AWS D1.8/D1.8M, AWS D9.1M/D9.1, AWS B2.1/B2.1M, AWS D14.1/D14.1M, AWS D14.3/D14.3M, AWS D14.4/D14.4M, AWS D15.1/D15.1M, AWS D17.1/D17.1, AWS D18.1/D18.1; BS EN 287-2; BS EN ISO 17639 CSA W47, CSA W59; DIN EN 287-1; ISO 4136, ISO 5173, ISO 5817, ISO 15614-1, ISO 15614-2, ISO 15614-3, ISO 15614-5, ISO 6520-1; MIL-STD-2219, MIL-STD-248D; NAVSEA S9074-AQ-GIB-010/248; TARDEC 12479550, TARDEC 12472301

Visual Inspection

API 1104; ASME Section I, ASME Section V, Article 9, ASME Section VIII, ASME Section IX, ASME B31.1, ASME B31.2, ASME B31.3; AWS B2.1/B2.1M, AWS D1.2/D1.2M, AWS D1.3/D1.3M, AWS D1.4/D1.4M, AWS D1.5/D1.5M, AWS D1.6/D1.6M, AWS D14.1/D14.1M, AWS D14.5/D14.5M; ISO 17637; MIL-STD-271F (1997)<sup>2</sup>; T9074-AS-GIB-010/271

Scanning Electron Microscopy (SEM)

ASTM E766

Depth of Decarburization

ASTM E1077 7.2, ASTM E1077 7.4

Detrimental Inter-Metallic Phases in Duplex Austenitic/Ferrite Stainless Steels

ASTM A923 Method A, ASTM A923 Method C

Evaluating Microstructure of Graphite in Iron Castings

ASTM A247

Ferrite Determination

ASTM E562, ASTM A800/A800M 4.1.1 & 4.1.3

Grain Size

ASTM B390-92 (*Withdrawn 2010*), ASTM E112, ASTM E930, ASTM E1181

Inclusion Content and Second-Phase Constituent Content by Image Analysis

ASTM E45, ASTM E1245; JIS G0555

Microetching

ASTM E407

**Test:**

Macroetching

Preparation of Samples

Total Case Depth and Effective Case  
Depth Measurement

Pitting and Crevice Corrosion Resistance

Susceptibility to Stress Corrosion Cracking

Susceptibility to Intergranular Attack - Stainless Steel

Susceptibility to Intergranular Attack - Cr - Bearing  
Alloys

Salt Spray

Determination of Dezincification Resistance of Brass

Evaluating Degree of Rusting on Painted Steel  
Surfaces

Surface Evaluation

Measurement of Metal and Oxide Coating Thickness

Qualitative Adhesion Testing of Metallic Coatings

Adhesion or Cohesion Strength of Thermal Spray  
Coatings

Density

Ferrite Determination (Feritscope) (Ferrous)

Failure Analysis

**Test Method(s):**

ASTM E340, ASTM E381, ASTM A561,  
ASTM A604/A604M; AWS B4.0

ASTM E3

SAE J423

ASTM G1, ASTM G48

ASTM G30, ASTM G31, ASTM G36

ASTM A262, ASTM A763; ISO 9400

ASTM G28; MIL-STD-867

ASTM B117; ISO 9227

ISO 6509

ASTM D610

ASTM D610, ASTM D714, ASTM D1654

ASTM B487

ASTM B571

ASTM C633

ASTM B311, ASTM B328-96 (*Withdrawn 2009*),  
ASTM B962, ASTM B963, ASTM D792

AWS A4.2

Using the methods listed on scopes 0711.01 &  
0711.02 in accordance with the ASM Handbook  
Volume 11

<sup>1</sup> This laboratory performs field testing activities for these tests.



# Accredited Laboratory

A2LA has accredited

## ANDERSON LABORATORIES, INC.

*Greendale, WI*

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 25<sup>th</sup> day of April 2024.

A blue ink signature of Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 0711.02  
Valid to March 31, 2026

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