



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ANDERSON LABORATORIES, INC.
6330 Industrial Loop
Greendale, WI 53129-2434
Lori Felber Phone: 414 421 7600
Fax: 414 421 6540

MECHANICAL

Valid To: March 31, 2024

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 tests on metals and metal alloys:

Test(s):

Test Method(s):

Tensile

ASTM A370; ASTM A770/A770M;
ASTM E345; ASTM E646; ASTM E8/E8M;
DIN EN 895; ASTM E517; 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;
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 Hardness¹

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; 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;
BS EN ISO 17639

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)²;
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*)²;
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:

Test Method(s):

Macroetching	ASTM E340; ASTM E381; ASTM A561; ASTM A604/A604M; AWS B4.0
Preparation of Samples	ASTM E3
Total Case Depth and Effective Case Depth Measurement	SAE J423
Pitting and Crevice Corrosion Resistance	ASTM G1; ASTM G48
Susceptibility to Stress Corrosion Cracking	ASTM G30; ASTM G31; ASTM G36
Susceptibility to Intergranular Attack - Stainless Steel	ASTM A262; ASTM A763; ISO 9400
Susceptibility to Intergranular Attack - Cr - Bearing Alloys	ASTM G28; MIL-STD-867
Salt Spray	ASTM B117; ISO 9227
Determination of Dezincification Resistance of Brass	ISO 6509
Evaluating Degree of Rusting on Painted Steel Surfaces	ASTM D610
Surface Evaluation	ASTM D610; ASTM D714; ASTM D1654
Measurement of Metal and Oxide Coating Thickness	ASTM B487
Qualitative Adhesion Testing of Metallic Coatings	ASTM B571
Density	ASTM B311; ASTM B328-96 (<i>Withdrawn 2009</i>) ² ; ASTM B962; ASTM B963; ASTM D792
Ferrite Determination (Feritscope) (Ferrous)	AWS A4.2
Failure Analysis	Using the methods listed on scopes 0711.01 & 0711.02 in accordance with the ASM Handbook Volume 11

¹ This laboratory performs field testing activities for these tests.

² 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 it does mean that the laboratory's accreditation for the method has been withdrawn.





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 21st day of December 2021.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0711.02
Valid to March 31, 2024

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