



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

MODERN INDUSTRIES, INC  
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MECHANICAL

Valid To: January 31, 2026

Certificate Number: 2949.01

In recognition of the successful completion of the A2LA evaluation process accreditation is granted to this laboratory at the location listed above, as well as the one satellite laboratory location listed below, to perform the following tests on steel, stainless steel, cast iron, copper alloys, aluminum, nickel & cobalt alloys, titanium, miscellaneous metals, forgings, castings, machined components, billets, bars, ingot, powdered metals, fasteners, chain, and cable:

**Test:**

**Test Methods:**

Physical Testing:

Bend Testing (Less Tubing)

ASME Sec IX; ASTM A370, A489, D790, E190;  
AWS B2.1/B2.1M, D1.1/D1.1M, D1.5/D1.5M

Compression

ASTM E9

Density

ASTM B311, B328-96(2003)e1 (Withdrawn 2009);  
MPIF Standard 42

Flattening / Flaring

ASTM A530/A530M, A1016/A1016M

Hardness Testing

Brinell Hardness (500 kgf, 3000 kgf)

ASTM E10

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

ASTM E18; MIL-STD-1312-6 (Withdrawn 1997,  
replaced by NASM 1312-6); NASM 1312-6

Impact (Charpy) (-423 to +1000)°F

ASTM A370, E23; AWS D1.5/D1.5M

Jominy

ASTM A255

Proof (No Cone Proof)

ASTM F606/F606M

Shear, Single & Double

ASME QW196; NASM 1312-13

Stress Rupture

ASTM E139, E292

Tensile

Ambient Temperature to 1800 °F

ASTM A370, D638/D638M, E8/E8M, E21,  
F606/F606M

Tensile (Axial / Wedge)

ASTM A370, F606/F606M

**Test:**

**Test Methods:**

Metallographic Evaluation:

Preparation	ASTM E3
Conductivity	AMS 2658
Decarburization	ASTM E1077, ASTM F2328
Case Depth	SAE J423
Ferrite Rating	AMS 2315; ASTM E562
Grain Size (Comparison Method Only)	ASTM E112
Inclusion Rating / Cleanliness	ASTM E45 Methods A & D; SAE J422; SAE AMS2301, AMS2303
Intergranular Attack	ASTM A262 Methods A & E
Macroetch	ASTM A561, A604/A604M, E340, E381; AWS D1.1/D1.1M
Microhardness	ASTM E384, E92
Knoop (100-1000g)	
Vickers (100-1000g)	
Microstructure	ASTM E1268; ASM Metals Handbook, Volume 9
Microstructure in Cast Iron Graphite Evaluation	ASTM A247
Permeability	ASTM A342/A342M Method 3
Pitting and Crevice Corrosion and Intergranular Corrosion	ASTM G28, G48
Photomicrograph	ASTM E883
SEM (Semi-quantitative, Material Identification)	ASTM E1508
Weld Operator and Procedure Qualification Testing (less Radiography)	ASME Sec IX; AWS D1.1/D1.1M, D1.2/D1.2M, D1.5/D1.5M, D11.2

Nondestructive Testing Methods:

Liquid Penetrant Examination	ASTM E165/E165M, E1417/E1417M; MIL-STD-6866 (Canceled 1996, Replaced by ASTM E1417), MIL-STD-271F (Canceled 1998, Replaced by NAVSEA T9074-AS-GIB-010/271)
Visible	
Fluorescent	
Magnetic Particle Examination	ASTM E709, E1444/E1444M; MIL-STD-271F (Canceled 1998, Replaced by NAVSEA T9074-AS-GIB-010/271), MIL-STD-1949 (Canceled 1993, Replaced by ASTM E1444)
Yoke – Visible (Dry)	
Bench (Fluorescent)	



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**Test:**

Physical Testing:

Compression  
Brinell Hardness (500 kgf, 3000 kgf)  
Rockwell (B, C, 15N, 30N, 30T)  
Impact (Charpy) -320°F to Ambient  
Tensile Ambient Temperature

**Test Methods:**

ASTM E9  
ASTM E10  
ASTM E18  
ASTM A370, E23; AWS D1.5/D1.5M  
ASTM A370, E8/E8M

Metallographic Evaluation:

Preparation  
Decarburization  
Case Depth  
Ferrite Rating  
Grain Size (Comparison Method Only)  
Inclusion Rating / Cleanliness  
Microhardness  
    Vickers (100g, 500g, 1000g)  
Microstructure  
Microstructure in Cast Iron Graphite  
Weld Operator and Procedure Qualification  
Testing (Tensile and Charpy Only)

ASTM E3  
ASTM E1077; SAE J121  
SAE J423  
AMS 2315; ASTM E562  
ASTM E112  
ASTM E45 Methods A & D; SAE J422  
ASTM E384, E92  
  
ASTM E1268; ASM Metals Handbook, Volume 9  
ASTM A247  
ASME Sec IX; AWS D1.1/D1.1M, D1.2/D1.2M,  
D1.5/D1.5M, D11.2





# Accredited Laboratory

A2LA has accredited

## MODERN INDUSTRIES, INC.

*Erie, PA*

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 14<sup>th</sup> day of December 2023.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2949.01  
Valid to January 31, 2026

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