



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

INDUSTRIAL TESTING LABORATORY SERVICES, LLC
635 Alpha Drive – RIDC Park
Pittsburgh, PA 15238
Steve Lysiak Phone: 412 963 1900

MECHANICAL

Valid To: June 30, 2020

Certificate Number: 1938.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following metals and fastener tests:

<u>Test:</u>	<u>Test Method:</u>
Ductility (Bend)	ASME Section IX; ASTM A370, E190, E290; AWS D1.1, D1.6
Fastener Testing	
Tensile (Wedge/Axial)	ASTM F606/F606M; NASM 1312-8
Proof (Internal & External Threads)	ASTM F606/F606M; NASM 1312-8
Stress Durability	NASM 1312-5
Hardness	
Brinell (500, 3000) kg	ASTM A370, E10; NASM 1312-6
Rockwell (B, C, 15T, 15N, 30N)	ASTM A370, E18; NASM 1312-6
Impact (Charpy) (-320 to +212) °F	ASTM A370, E23
Microhardness	
Knoop (100) gf	ASTM B578, E92, E384; NASM 1312-6
Vickers (200, 500, 1000, 10000) gf	ASTM B578, E92, E384; NASM 1312-6
Metallographic Evaluation	
Preparation	ASTM E3
Grain Size	ASTM E112, E930, E1181
Macroetch	ASTM E340, E381
Depth of Decarburization	ASTM E1077, F2328; SAE J121(cancelled 2013)*
Banding /Orientation of Microstructures	ASTM E1268; ASM Handbook, Vol. 9
Microetch	ASTM E407
Intergranular Corrosion	ASTM A262, Practice A, C, E
Phase Analysis	ASTM E562, E1245
Coating Thickness	ASTM B487

Test:

Test Method:

Tensile

600,000 lbs Capacity
(Ambient to 1000°F)

ASTM A370, A770, B557, E8/E8M, E21, E111;
NASM 1312-18

Compression

600,000 lbs Capacity

ASTM E9, F36

Weld/Braze Operator/Procedure Qualification
Testing

Using the methods listed above in accordance with:
ASME Sect. IX; AWS D1.1, D1.2, D1.3, D1.5, D1.6,
D12.1, D14.4, D15.1; NAVSEA 250-1500-1,
NAVSEA S9074-AQ-GIB-010/248,
NAVSEA S9074-AR-GIB-010/278

SEM/EDS

ASM Handbook, Vol. 9; ASTM E1508

Failure Analysis

ASM Handbook, Vol. 11

Magnetic Permeability

ASTM A342 Methods 3, 4

Flattening

ASTM A530, A999, A1016

Flaring

ASTM A1016

*NOTE: This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.



Accredited Laboratory

A2LA has accredited

INDUSTRIAL TESTING LABORATORY SERVICES, LLC

Pittsburgh, PA

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 15th day of June 2018.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 1938.01
Valid to June 30, 2020

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