



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, 2018

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 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
Hardness	
Brinell (500, 3000) kg	ASTM E10; NASM 1312-6
Rockwell (B, C, 15T, 15N, 30N)	ASTM E18; NASM 1312-6
Hydrogen Embrittlement	ASTM F519
Impact (Charpy) (-320 to +212) °F	ASTM E23
Microhardness	
Knoop (100) gf	ASTM E384; NASM 1312-6
Vickers (200, 500, 1000) gf	ASTM E384; NASM 1312-6
Stress Rupture	ASTM E292

Test

Test Method

Metallographic Evaluation

Preparation
Grain Size
Macroetch
Depth of Decarburization
Banding /Orientation of Microstructures
Inclusion Content
Microetch
Intergranular Corrosion

ASTM E3
ASTM E112
ASTM E340
ASTM E1077; SAE J121
ASTM E1268; ASM Handbook, Vol. 9
ASTM E45, Method A
ASTM E407
ASTM A262, Practice A, C, E

Tensile

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

ASTM A370, E8, E21; NASM 1312-18

Weld Operator/Procedure Qualification

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;
S9074-AR-GIB-010/248, S9074-AR-GIB-010/278

SEM/EDS

Failure Analysis

ASM Handbook, Vol. 9; ASTM E1508
ASM Handbook, Vol. 11





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 8 January 2009).



Presented this 30th day of June 2016.

A handwritten signature in blue ink, appearing to read "J. C. Bunt".

Senior Director of Quality and Communications
For the Accreditation Council
Certificate Number 1938.01
Valid to June 30, 2018

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