



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EWI LAB SERVICES
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MECHANICAL

Valid To: October 31, 2023

Certificate Number: 3209.01

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

Test:

Test Method(s):

Mechanical Testing

Tensile (Yield, Tensile, Elongation, %RA)	ASTM E8/E8M; AWS B4.0
Bend Test	ASTM E190, ASTM E290; AWS B4.0
Charpy Impact Test	ASTM E23; AWS B4.0
Drop Weight Testing	ASTM E208; AWS B4.0
Residual Stress Measurement	ASTM E837
Fatigue Test, Constant Amplitude, Axial	ASTM E466
Fracture Toughness	ASTM 1820; BSI 7448; ISO 12135, ISO 15653
Nick-Break Test	AWS B4.0
Hardness	
Rockwell (B, C)	ASTM E18, ASTM E140
Vickers Macro Hardness (10 kg)	ASTM E92
Vickers Micro Hardness (100, 200, 300, 500, 1000 gf)	ASTM E384

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<u>Test:</u>	<u>Test Method(s):</u>
<u>Metallographic Evaluation</u>	
Metallographic Preparation	ASTM E3
Micro-Etching	ASTM E407
Inclusion Rating	ASTM E45 Method A
Grain Size	ASTM E112 (Comparison and Heyn lineal intercept methods), ASTM E1382
Volume Fraction by Point Count	ASTM E562
<u>Weld</u>	
Weld Procedure/Welder Qualification	ASTM E8/E8M, ASTM E190, ASTM E290, ASTM E23, ASTM E208 in accordance with AWS B4.0
Fillet Weld Test	AWS B4.0
<u>Chemical Properties</u>	
Glow Discharge Atomic Emission Spectrometry	
Carbon and Low-Alloy Steel (Al, B, C, Co, Cr, Cu, Mg, Mn, Mo, Ni, P, S, Si, Ti, V, Zr)	ASTM E415
Austenitic Stainless Steel (C, Cr, Cu, Mn, Mo, Ni, P, Si)	ASTM E1086
Diffusible Hydrogen Analysis by Gas Chromatography (H)	ANSI/AWS A4.3
<u>Non Destructive Evaluation</u>	
Radiography	ASTM E1032
<u>Environmental Simulation</u>	
Ferric Chloride Pitting Test	ASTM G48 Method A

¹This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.