



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

Innovaciones Investigaciones Tecnologías Avanzadas, S.A. de C.V.
Av. Humberto Lobo No. 9334, Col. Parque Industrial Mitras
Garcia, Nuevo León, México. C.P. 66023

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Mechanical, Non-Destructive and Chemical Testing
(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President

Initial Accreditation Date:

November 18, 2012

Issue Date:

January 21, 2025

Expiration Date:

February 28, 2027

Accreditation No.:

74105

Certificate No.:

L25-44

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjllabs.com



Certificate of Accreditation: Supplement

Innovaciones Investigaciones Tecnologías Avanzadas, S.A. de C.V.

Av. Humberto Lobo No. 9334, Parque Industrial Mitras

Garcia, Nuevo León, México. C.P. 66023

Contact Name: Liset Muñoz Phone: 818 381 0918

Accreditation is granted to the facility to perform the following testing:

FLEX CODE	FIELD OF TEST	ITEMS, MATERIALS, OR PRODUCTS TESTED	COMPONENT, CHARACTERISTIC, PARAMETER TESTED	SPECIFICATION OR STANDARD METHOD	TECHNOLOGY OR TECHNIQUE USED
F1, F2	Mechanical ^F	Metal (Pipe, Plate)	Charpy Impact Test	ASTM E23	Impact Tester
F1, F2			CVN	ASTM A923 ASTM A370	
F1, F2			Tension Testing (YS, TS, % E, % RA, "N" Value, "R" Value)	ASTM E8 ASTM A370 JIS Z 2241 ISO 6892-1 DIN 50125 ASME SECTION IX QW-150 ASTM E646 ASTM E517	Tension-Compression Machine Extensometer
F1, F2			Brinell Hardness	ASTM E10 ASTM A370	Brinell Hardness Tester
F1, F2			Vickers Hardness	ASTM E92 ASTM E384	Vickers Hardness
F1, F2			Rockwell Hardness	ASTM E18	Rockwell Hardness A, B, C, 15T, 30T, 45T, 15N, 30N, 45N
F1, F2			Bend Test	ASTM E290 ASME Section IX QW-160 ASTM A370	Tension-Compression Machine
F1, F2			Corrosion Rate	ASTM G48 Methods A, B, C, D & F ASTM A262 Practices A, B, C, E & F	Analytical Balance, pH Meter, Caliper
F1, F2			Detecting Detrimental Intermetallic Phase (Corrosion)	ASTM A923	Method A (Etch), Method B (Impact), Method C (Corrosion)
F1, F2			Resistance to Hydrogen-Induced Cracking	NACE TM0284	Analytical Balance, pH Meter, Optical Microscope
F1, F2			Resistance to Sulfide Stress Cracking and Stress Corrosion Cracking	NACE TM0177	Analytical Balance, pH Meter, H ₂ S, Visual Inspection Method



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F1, F2	Mechanical ^F	Metal (Pipe, Plate)	Corrosion (Accelerated)	ASTM B117	Salt Spray (Fog) Chamber
F1, F2				ASTM G85	
F1, F2			ASTM D714	Corrosive Environments	
F1, F2			ASTM D1654		
F1, F2			ASTM D2247	Humidity Test Chamber	
F1, F2			Determination of Roughness	ASTM D4417	Roughness tester
F1, F2			Characteristics of Surfaces		
F1, F2			Determining the Weight [mass] of Coating	ASTM A 90	Analytical Balance, Caliper
F1, F2			Determining non-Metallic Inclusions	ASTM E45	Visual Inspection Method
F1, F2		Determining the Average Grain Size	ASTM E112	Image Analysis	
F1, F2		Drop-Weight Tear Test	API RP5L3	Visual Inspection Method	
F1, F2		Compression Testing	ASTM E9	Lineal Interception	
F1, F2		Coating Products	Rating Adhesion	ASTM D3359.	Tape Test, Knife Cutting Tool/Cutting Device, Brush
F1, F2	ASTM D6677				
F1, F2	ISO 2409				
F1, F2		Impact Test.	ASTM D2794	Vertical Impact Tester	
F1, F2		Determining the Film Hardness	ISO 15184	Pencil Hardness Tester	
F1, F2	Non-Destructive ^{FO}	Metal	Liquid Penetrant Testing	ASTM E165/E165M	Visible Dry Penetrants
F1, F2			ASTM E1417		
F1, F2			Magnetic Particle Testing	ASTM E1444	
F1, F2	ASTM E3024				
F1, F2		Ultrasonic Examination	ASTM A435/A435M	Ultrasonic Flaw Detector	
F1, F2			ASTM A578/A578M		
F1, F2			ASTM A577/A577M		
F1, F2			ASTM E587		
F1, F2	Chemical ^F	Metals Ferrous and Non-Ferrous	Chemical Analysis	ASTM E415	Optical Emission Spectrometry
F1, F2				ASTM E1086	
F1, F2				ASTM E1999	
F1, F2				ASTM E1251	
F1, F2				EN 15079	
F1, F2		Metal	Macro Etching	ASTM E340	Specimens (a), (b) and (c)
F1, F2				ASME Section IX	
F1, F2				QW-183 and QW-184	Digital Microscope



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F1, F2	Chemical ^F	Water	Chemical Analysis: Potassium, Sodium, Calcium and Magnesium	ASTM D4192 ASTM D4191 ASTM D511 Method B	Atomic Absorption Spectrometry
F1, F2		Metal Metallics and Non-Metallics	Chemical Analysis	ASTM E1508	Scanning Electron Microscope (SEM+EDS)

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location.
2. The presence of a superscript O means that the laboratory performs testing of the indicated parameter onsite at customer locations.
3. Flex Code:
 F0-Fixed scope item. No deviations allowed to the line item as identified, except for updating to the most recent version of an accredited standard method after verification
 F1-Laboratory has the capability to test a new item, material, matrix, or product similar in composition to item, material, matrix, or product identified on the scope
 F2-Laboratory has the capability to introduce the newest revision of an accredited authoritative standard method (with no modifications) identified on the scope
 F3-Laboratory has the capability to introduce a parameter/component/analyte to an accredited test method identified on the scope
 F4-Laboratory has the capability to introduce a new revision of an accredited non-standard method using the same technology or technique identified on the scope
 F5-Laboratory has the capability to introduce a validated method that is equivalent to an accredited method (using same technology or technique) identified on the scope