PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Consultoría y Pruebas de Materiales, S.A. de C.V.

Avenida Adolfo López Mateos 1099A-1
San Nicolás de Los Garza, Nuevo León, México. C.P. 66479

and hereby declares that the Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

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

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:

Tracy Szerszen
President

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

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
November 07, 2010	January 04, 2024	February 28, 2026
Revision Date:	*Accreditation No.:*	*Certificate No.:*
April 02, 2025	67973	L24-21 -R2

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.pjlabs.com

Certificate of Accreditation: Supplement

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Avenida Adolfo López Mateos 1099A-1
San Nicolás de Los Garza, Nuevo León, México. C.P. 66479
Contact Name: Joel Treviño Phone: 811-520-2292

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF TEST	ITEMS, MATERIALS, OR PRODUCTS TESTED	COMPONENT, CHARACTERISTIC, PARAMETER TESTED	SPECIFICATION OR STANDARD METHOD	TECHNOLOGY OR TECHNIQUE USED	FLEX CODE	LOCATION OF ACTIVITY
Chemical	Metals Ferrous and Non-Ferrous (Iron Base, Copper Base, Aluminum Base, Nickel Base, Zinc Base)	Alloying and Residual Elements Determination	ASTM E415 ASTM E1086 ASTM E1999 ASTM E1251 DIN EN 15079 ASTM E3047 ISO 3815-1	ICP OES	F1, F2	F
Chemical	Metals Ferrous and Non-Ferrous Organic Materials and Automotive Components	Salt Spray (Fog)	ASTM B117 JIS Z 2371	Apparatus/Visual	F1, F2	F
Chemical	Metals Ferrous and Non-Ferrous Organic Materials and Automotive Components	CCT (Cyclic Corrosion Test) (Water Fog)	ASTM D1735 ASTM D2247 SAE J2334	Apparatus/Visual	F1, F2	F
Chemical	Polymers	QUV (Aging by Accelerated Intemperism)	ASTM G154 ASTM G151 ASTM D4329	Apparatus/Visual	F1, F2	F
Chemical	Metals Ferrous	Determination of Carbon-Sulfur	ASTM E1019 ASTM E1806	Combustion and Inert Gas Fusion Techniques	F1, F2	F
Chemical	Textile Glass Reinforced Plastics	Determination of Glass Fiber Content	ISO 1172 ASTM D5630	Muffle Furnace Technique	F1, F2	F
Chemical	Polymers	DSC (Transition Temperatures and Enthalpies of Fusion and Cristallization)	ASTM D3418	Differential Scanning Calorimetry	F1, F2	F
Chemical	Polymers	Infrared Spectro for Qualitative Analysis	ASTM E1252	FTIR (Fourier Transform Infrared)	F1, F2	F
Chemical	Polymers	Determination of color	ASTM D2244	Colorimeter	F1, F2	F

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Chemical	Polymers	Determination of Specular Gloss in Surface	ASTM D523	Glossmeter	F1, F2	F
Mechanical	Metal Surfaces	Roughness (Ra) Sheet Metal Surfaces	ASTM D 7127 SAE J911	Electronic Surface Roughness Measurement Instrument	F1, F2	F
Mechanical	Metal	Tensile r-Value	ASTM E517	Extensometer / Universal Testing Machine	F1, F2	F
Mechanical	Metal	Tensile n-Value	ASTM E646	Extensometer / Universal Testing Machine	F1, F2	F
Mechanical	Metal	Weight (mass) of Coating on Iron and Steel Articles with Zinc or Zinc Alloy Coating, Coating Weigth	ASTM A90/ A90M	Gravimetric Analysis/ Analytical Balance	F1, F2	F
Mechanical	Metal	Charpy Impact Test CVN	ASTM A370, ASTM E-23 API 1104 AWS B4.0 ASME Sec. VIII (UG-84) NMX-B-120	Impact Machine	F1, F2	F
Mechanical	Metal	Tension Testing of Metallic Materials (Tensile Strength, Yield Strenght, Elongation and Reduction of Area)	ASTM B557/B557M, ISO 6892-1 API 1104 AWS B4.0 ASTM E8 ASTM A370 JIS Z2241 NMX-B-172	Universal Testing Machine	F1, F2	F

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Mechanical	Metal	Guided Bend Test	ASTM A370 API 1104 AWS B4.0 ASME Sec.IX (QW-160) ASTM-E190 ASTM-E290 NMX-B-113	Universal Testing Machine	F1, F2	F
Mechanical	Metal	Compression Testing	ASTM E9	Universal Testing Machine	F1, F2	F
Mechanical	Metal	Vickers Hardness	ASTM E384 ASTM E92 ISO 6507 NMX-B-118	Microhardness and Macroharness	F1, F2	F
Mechanical	Metal	Rockwell Hardness	ASTM E-18 NMX-B-119	Rockwell Hardness Testing Machines	F1, F2	F
Mechanical	Metal	Brinell Hardness	ASTM E110 SAE J417 ASTM E10 NMX-B-116 NMX-B-313	Brinell Hardness Testing Machines	F1, F2	F
Mechanical	Metal	Nick Break	API 1104	Universal Testing Machine	F1, F2	F
Mechanical	Polymers	Melt Flow Rate	ISO 1133 Part 1 and Part 2 ASTM D1238	Mass-Measurement Method	F1, F2	F
Mechanical	Polymers	Density and Specific Gravity	ASTM D792	Digital Density Meter	F1, F2	F
Mechanical	Thermoplastics	Izod Notched Impact Strength	ASTM D256 ISO 180	Pendulum-type Hammers	F1, F2	F
Mechanical	Metallic Materials	Determining No Metallic Inclusion	ASTME-45	Comparison Method	F1, F2	F

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Mechanical	Metallic Materials	Determining Average Grain Size	ASTM E112 ASTM E1382	Comparison Method	F1, F2	F
Mechanical	Metals Ferrous	Resistance to Hydrogen Induced Cracking	NACE TM0284	Reactor/ Iodometric Titration / Metallographic Microscope	F1, F2	F
Mechanical	Metals Ferrous	SCC (Stress Corrosion Cracking), SSC (Sulfide Stress Cracking)	ISO 7539-2 NACE TM0177	Four-Point Loading	F1, F2	F
Mechanical	Adhesive Materials	Peel Adhesion Test 90° and 180°	ASTM D6862 ASTM D903	Universal Testing Machine (Tensile Tester)	F1, F2	F
Mechanical	Adhesive Materials	Loop Tack	ASTM D6195	Universal Testing Machine (Tensile Tester)	F1, F2	F
Mechanical	Polymers	Tension Testing	ASTM D3950 ASTM D638 ISO 527	Universal Testing Machine (Tensile Tester)	F1, F2	F
Mechanical	Polymers	Flexion Testing	ASTM D790	Universal Testing Machine (Tensile Tester)	F1, F2	F
Mechanical	Polymers	Compression Testing	ASTM D695	Universal Testing Machine (Tensile Tester)	F1, F2	F
Mechanical	Polymers	Hardness Shore A, C and D	ASTM D2240 ISO 868 ISO 48-4	Hardness Test Machine	F1, F2	F
Non-Destructive Test	Metal	Ultrasonic Examination	ASTM E587 ASTM A435	Pulse-echo Technique	F1, F2	F, O
Non-Destructive Test	Metal	Liquid Penetrant	ASTM E1417	Method C: Solvent-Removable	F1, F2	F, O
Non-Destructive Test	Metal	Magnetic Particle	ASTM E 1444 ASTM E3024	Electromagnetic Yoke	F1, F2	F, O

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Non-Destructive Test	Metal	Micro/Macro Etching	ASTM E340, E407 AWS, ASME Secc. IX	Chemical Attack	F1, F2	F, O

1. Location of activity:

Location Code	Location
F	Conformity assessment activity is performed at the CABs fixed facility
O	Conformity assessment activity is performed onsite at the CABs customer location

2. 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