PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Asesoría y Equipos de Inspección, S.A. de C.V.(AEISA)

Calle Lucas Alamán # 1109, Colonia Bella Vista
Monterrey, Nuevo León, México. C.P. 64410

(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):

Dimensional, Optical, Electrical and Mechanical Calibration
(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

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

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
July 20, 2018	May 31, 2024	September 30, 2026

Accreditation No.:	*Certificate No.:*
95343	L24-674

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

Asesoría y Equipos de Inspección, S.A. de C.V. (AEISA)
Calle Lucas Alamán # 1109, Colonia Bella Vista
Monterrey, Nuevo León, México. C.P. 64410
Contact Name: Edgar Escalante Phone: 818-374-1428

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

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Ultrasonic Thickness Gages[FO]	2.54 mm to 12.7 mm	5.8 µm	Five Step Block	ASTM-E317 6.7
Ultrasonic Flaw Detector[FO]	25.4 mm to 254 mm	6 µm	IIW Type 2 Block	ASTM-E317 6.2, 6.3.2

Optical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Light Meter Irradiance Ultraviolet Light At Listed Wave Lengths 320 nm to 400 nm[F]	100 µW/cm² to 10 000 µW/cm²	3.8 % of reading	Sensor XDS-1000 Radiometer XR-1000 C	ASTM-E1417 7.8.4.4 ASTM-E1444 7.4.7
Light Meter Illuminance Visible Light At Listed Wave Lengths 460 nm to 675 nm[F]	5.38 lux to 5 000 lux	1.8 % of reading		
Transmission Densitometer[F]	0.8 D to 1 D	3.1 % of reading	X-Ray Film Step Tablet	ASTM-E1079
	2 D to 2.5 D	3 % of reading		
	3.5 D to 4 D	3 % of reading		

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Magnetic Particle Inspection Devices Current AC/DC Time[FO]	80 A to 20 000 A	0.6 % of reading	Resistance Shunt Multimeter, Oscilloscope	ASTM-E709 20.3.1, 20.3.2 ASTM-E1444 7.4.1, 7.4.2
	0.1 s to 5 s	0.005 s		
Gauss Meters[FO]	-200 G to 200 G	4.5 % of reading	Gauss Fixture Series 5000 F.W. Bell	ASTM-E709 ASTM-E1444

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Accreditation is granted to the facility to perform the following calibrations

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Indirect Verification of Leeb, Hardness Tester HLD[F]	700 HLD to 800 HLD	9.4 HLD	Test Block	ASTM A956

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor *k* (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.

2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.

3. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location.

4. The presence of a superscript O means that the laboratory performs calibration of the indicated parameter onsite at customer locations.

5. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.