



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Metkal, S.A. de C.V.

***Rio San Juan No. 2031, Fracc. Bernardo Reyes
Monterrey, Nuevo León, México. C.P. 64280***

*(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, Thermodynamic, Mechanical, Optical, Mass, Force and Weighing
Devices and Electrical 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:

Initial Accreditation Date:

January 25, 2021

Issue Date:

December 23, 2022

Expiration Date:

March 31, 2025

Tracy Szerszen
President

Accreditation No.:

112156

Certificate No.:

L22-892

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*

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Certificate of Accreditation: Supplement

Metkal, S.A. de C.V.

Rio San Juan No. 2031, Fracc. Bernardo Reyes
 Monterrey, Nuevo León, México. C.P. 64280
 Contact Name: Sergio Garza Rangel Phone: 812-723-6670

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

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Dial Indicators, Analog and Digital Dial Lever ^{FO}	Up to 101.6 mm	2 μ m	Lineal Gage ASME/ANSI B 89.1.10M NMX- CH-149-IMNC JIS B-7503 JIS B-7533
Calibrators Vernier, Dial Digital and Depths ^{FO}	Up to 508 mm (Up to 20 in)	5.8 μ m (2.28 x 10 ⁻⁴ in)	Standard Blocks Set JIS B 7507 NMX-CH-002-IMNC
Exterior Micrometers (Digital and Analog) ^{FO}	1.27 mm to 304.8 mm	0.9 μ m	Standard Blocks Set Flatness Table
Depth Micrometers ^{FO}	1.27 mm to 304.8 mm	0.9 μ m	Electronic Scale
Interior Micrometers ^{FO}	1.27 mm to 304.8 mm	0.9 μ m	Optical Set Parallels NMX-CH-099-IMNC NMX-CH-093-IMNC JIS B 7502 / JIS B 7508 JIS B 7544
Rigid Rule ^{FO}	30 m	150 μ m	Rule, Reticule
Measuring Tape ^{FO}	Up to 3 000 mm	150 μ m	NMX-CH-148-IMNC NOM-046-SCFI
Sieve ^{FO}	1 μ m to 100 mm	0.3 μ m to 0.46 mm	Vision System ASTM E-11
Ring Gage ^{FO}	0.1 mm to 100 mm	(0.717 + 8.398L) μ m	Vision System ISO 1502 ANSI / ASME B89.1.5
Pin Gage ^{FO}	0.1 mm to 100 mm	(0.521 + 5.364L) μ m	Vision System ISO 1502 ANSI / ASME B89.1.5
Scantling ^{FO}	0.1 mm to 100 mm Long	0.27 μ m	Vision System ISO 10360-2
Thickness Gages ^{FO}	23.5 μ m to 2.93 mm	1 μ m	Precision Foil ASME B 89.1.5
Length Measuring Error ^F Scantling (Rigid Rule, Measuring Tape)	25 mm to 330 mm	0.014 mm	Lineal Gage Scale ASME Y 14.5

Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Thermometer Direct Reading ^{FO}	-15 °C to 110 °C	0.28 °C	Fluke 754 with RTD (Pt 100) Dual Dry Well – Digital Oven Fluke NMX-CH-070
	110 °C to 350 °C	0.28 °C	



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Thermodynamic

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Infrared Thermometer ^{FO}	100 °C to 1 000 °C	2.5 °C	Blackbody Source OMEGA BB-4A AMS 2750 ASTM E 2847
Humidity Meter ^{FO}	35 % RH	0.88 % RH	Thermohygrometer CEM and Humidity Chamber Natural Salts DKD-R 5-8
	57 % RH	0.86 % RH	
	85 % RH	1.2 % RH	
Temperature Measure Thermocouple Type B ^{FO}	-15 °C to 350 °C	1.7 °C	Fluke 754 with RTD (PT 100 Ω) Drywell Fluke 9009 Euramet cg-11
Temperature Measure Thermocouple Type E ^{FO}	-15 °C to 350 °C	2 °C	
Temperature Measure Thermocouple Type J ^{FO}	-15 °C to 350 °C	1.7 °C	
Temperature Measure Thermocouple Type K ^{FO}	-15 °C to 350 °C	1.7 °C	
Temperature Measure Thermocouple Type R ^{FO}	-15 °C to 350 °C	1.2 °C	
Temperature Measure Thermocouple Type S ^{FO}	-15 °C to 350 °C	1.2 °C	
Temperature Measure Thermocouple Type T ^{FO}	-15 °C to 350 °C	0.6 °C	
Temperature Measure Thermocouple Type RTD (pt 100) ^{FO}	-15 °C to 350 °C	0.5 °C	

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Pressure Gauge ^{FO}	-10 psi to 0 psi	0.022 psi	Transducer Pressure Gauge Fluke NOM-013-SCFI
	Up to 30 psi	0.037 psi	
	30 psi to 300 psi	0.007 3 psi	
	300 psi to 500 psi	0.1 psi	
	500 psi to 3 000 psi	3.7 psi	
Hands Torque Tools ^F	5 lb-ft to 50 lb-ft	0.074 lb-ft	Torque Analyzer Mountz with Traducer Analyzer ISO 6789-1 ISO 6789-2
	50 lb-ft to 100 lb-ft	1.2 lb-ft	
	100 lb-ft to 1000 lb-ft	2.2 lb-ft	



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

Mass, Force and Weighing Devices

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Mechanical and Electronic Top Loader Balance	1 mg to 1 g (Res.= 0.000 1 mg)	0.000 017 g	Master Weight Mass Class E2 CENAM Technical Guide Euramet cg-18
	1 g to 2 g (Res.= 0.000 1 mg)	0.000 023 g	
	2 g to 5 g (Res.= 0.000 1 mg)	0.000 029 g	
	5 g to 10 g (Res.= 0.001 mg)	0.000 035 g	
	10g to 20 g (Res.= 0.001 mg)	0.000 046 g	
	20g to 50 g (Res.= 0.001 mg)	0.000 058 g	
	50g to 100 g (Res.= 0.001 mg)	0.000 092 g	
	100g to 200 g (Res.= 0.01 mg)	0.000 17 g	
	200g to 500 g (Res.= 1 mg)	0.001 6 g	
	500g to 1 kg (Res.= 2 mg)	0.003 3 g	
	1 kg to 2 kg (Res.= 5 mg)	0.007 g	
	2 kg to 5 kg (Res.= 10 mg)	0.016 g	
	Balance and Scales ^{FO}	5 kg to 10 kg (Res.= 0.02 g)	
10 kg to 20 kg (Res.= 0.05 g)		0.07 g	
20 kg to 50 kg (Res.= 1 g)		1.6 g	
50 kg to 100 kg (Res.= 2 g)		3.3 g	
100 kg to 200 kg (Res.= 5 g)		7 g	
200 kg to 500 kg (Res.= 10 g)		17 g	
500 kg to 1 000 kg (Res.= 50 g)		50 g	



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Scale ^{FO}	1 kg to 1 000 kg	0.17 kg	Master Weight F1 Double Substitution OIML R47, OIML R76
	1 000 kg to 2 000 kg	0.31 kg	
	2 000 kg to 3 000 kg	0.41 kg	
	3 000 kg to 4 000 kg	0.5 kg	
	4 000 kg to 5 000 kg	0.58 kg	
Weight Class M1 ^F	20 kg	0.33 g	Class F1 OIML R111 Weight Set Double Substitution Scale 21 kg CENAM Technical Guide
Weight Class M2 ^F	20 kg	1 g	
Weight Class M3 ^F	20 kg	3.33 g	

Optical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Luxometer ^{FO}	100 lux to 4 000 lux	2 % of reading	Luxometer CEM DT1309 NIST SP 250-37

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Equipment to Output AC Current ^{FO}	Up to 12 A	0.021 A	Digital Multimeter NMX-CH-131/1-SCFI NMX-CH-110/1-SCFI
Equipment to Output DC Current ^{FO}	Up to 12 A	0.021 A	Digital Multimeter NMX-CH-131/1-SCFI NMX-CH-110/1-SCFI
Equipment to Output DC Voltage ^{FO}	Up to 1 000 V	0.17 mV	Digital Multimeter NMX-CH-131/1-SCFI NMX-CH-110/1-SCFI
Equipment to Output AC Voltage At the listed frequencies 55 Hz to 60 Hz ^{FO}	Up to 750 V	0.22 mV	Digital Multimeter NMX-CH-131/1-SCFI NMX-CH-110/1-SCFI
Equipment to Measure AC Voltage At the listed frequency 55 Hz to 60 Hz ^{FO}	Up to 750 V	0.22 mV	Multifunction Calibration Transmille Model 1000A Euramet-cg-11



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Equipment to Output DC Current ^{FO}	Up to 1 000 V	0.17 mV	Digital Multimeter NMX-CH-131/1-SCFI NMX-CH-110/1-SCFI
Equipment to Measure AC Voltage ^{FO}	Up to 1 000 V	0.17 mV	Multifunction Calibration Transmille Model 1000A Euramet-cg-11
Equipment to Measure AC Current (Direct Method) ^{FO}	Up to 12 A	0.021 A	Multifunction Calibration Transmille Model 1000A Euramet-cg-11
Equipment to Measure DC Current (Direct Method) ^{FO}	Up to 12 A	0.035 A	
Temperature Calibration Indication, and Control Equipment used with Thermocouple Type B ^{FO}	600 °C to 1 820 °C	1.8 °C	Electrical Simulation of Thermocouple Output Multifunction Calibration Transmille Model 1000A Euramet-cg-11
Temperature Calibration Indication, and Control Equipment used with Thermocouple Type C ^{FO}	10 °C to 2 316 °C	0.4 °C	
Temperature Calibration Indication, and Control Equipment used with Thermocouple Type E ^{FO}	-250 °C to 1 000 °C	2.4 °C	
Temperature Calibration Indication, and Control Equipment used with Thermocouple Type J ^{FO}	-210 °C to 1 200 °C	2.2 °C	
Temperature Calibration Indication, and Control Equipment used with Thermocouple Type K ^{FO}	-200 °C to 1 370 °C	2.2 °C	
Temperature Calibration Indication, and Control Equipment used with Thermocouple Type L ^{FO}	-200 °C to 900 °C	2.2 °C	



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Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type N ^{FO}	-200 °C to 1 300 °C	1.9 °C	Electrical Simulation of Thermocouple Output Multifunction Calibration Transmille Model 1000A Euramet-cg-11
Temperature Calibration, Indication, and Control. Equipment used with Thermocouple Type S ^{FO}	0 °C to 1 760 °C	1.8 °C	
Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type T ^{FO}	0 °C to 1 760 °C	1.8 °C	
Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type U ^{FO}	-250 °C to 400 °C	1.5 °C	
Temperature Calibration Indication, and Control Equipment used with Thermocouple Type B ^{FO}	600 °C to 1 820 °C	0.69 °C	Electrical Simulation of Thermocouple Output Multifunction Calibrator Fluke 754 CENAM Technical Guide
Temperature Calibration Indication, and Control Equipment used with Thermocouple Type E ^{FO}	-250 °C to 1 000 °C	0.55 °C	
Temperature Calibration Indication, and Control Equipment used with Thermocouple Type J ^{FO}	-210 °C to 1 200 °C	0.49 °C	
Temperature Calibration Indication, and Control Equipment used with Thermocouple Type K	-200 °C to 1 372 °C	0.69 °C	
Temperature Calibration Indication, and Control Equipment used with Thermocouple Type R ^{FO}	0 °C to 1 767 °C	0.8 °C	
Temperature Calibration Indication, and Control Equipment used with Thermocouple Type S ^{FO}	0 °C to 1 767 °C	0.94 °C	



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Temperature Calibration Indication, and Control Equipment used with Thermocouple Type T ^{FO}	-250 °C to 400 °C	0.35 °C	Electrical Simulation of Thermocouple Output Multifunction Calibrator Fluke 754, CENAM Technical Guide
Temperature Calibration, Indication, and Control Equipment used with RTD Type Pt 3 926, 100 Ω ^{FO}	-200 °C to 630 °C	0.26 °C	Electrical Simulation of RTD Output Multifunction Calibrator Fluke 754 CENAM Technical Guide
Temperature Calibration, Indication, and Control Equipment used with RTD Type Pt 3 916, 100 Ω ^{FO}	-200 °C to 630 °C	0.46 °C	
Temperature Calibration, Indication, and Control Equipment used with RTD Type Pt 385, 200 Ω ^{FO}	-190 °C to 630 °C	0.66 °C	
Temperature Calibration, Indication, and Control Equipment used with RTD Type Pt 385, 500 Ω ^{FO}	-190 °C to 630 °C	0.66 °C	
Temperature Calibration, Indication, and Control Equipment used with RTD Type Pt 385, 1 000 Ω	-190 °C to 630 °C	0.66 °C	
Temperature Calibration, Indication, and Control Equipment used with RTD Pt Ni 385, 120 Ω (Ni 120) ^{FO}	-80 °C to 260 °C	0.67 °C	
Equipment to Measure DC Voltage ^{FO}	0.104V to 1.04 V	0.000 09 V	
	1.04 V to 10.04 V	0.000 9 V	
	10.4 V to 104 V	0.009 V	
	104 V to 1020 V	0.067 V	
Equipment to Measure AC Voltage At the listed frequencies 10 Hz to 20kHz ^{FO}	10 mV to 104 mV	0.13 mV	
	0.1 mV to 1.04 mV	0.04 mV	
	1 V to 10 V	0.002 8 V	
Equipment to Measure AC Voltage At the listed frequencies 40 Hz to 1 kHz ^{FO}	10.4 V to 104 V	0.037 V	
	104 V to 1020 V	0.4 V	



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Equipment to Measure DC Voltage At the listed frequencies 10 Hz to 20 kHz ^{FO}	10 mV to 104 mV	0.13 V	Multifunction Calibration Transmille Model 1000A Digital Multimeter BK Precision 5492 Euramet-cg-15
	0.1 mV to 1.04 mV	0.042 V	
	1 V to 10 V	0.002 8 V	
Equipment to Measure DC Voltage At the listed frequencies 40 Hz to 1 kHz ^{FO}	10.4 V to 104 V	0.037 V	
	104 V to 1020 V	0.4 V	
Equipment to Measure DC Current ^{FO}	10 mA to 104 mA	0.01 mA	
	0.104 mA to 1.04 mA	0.000 5mA	
	1.04 mA to 10.4 mA	0.005 1 mA	
	10.4 mA to 1 04 mA	0.024 mA	
	104 mA to 1 040 mA	0.48 mA	
	1.04 A to 10.2 A	0.007 1 A	
Equipment to Measure DC Current Type Thyroid ^{FO}	11 A to 500 A	2.6 A	
Equipment to Measure DC Current Other-Type ^{FO}	11 A to 550 A	6 A	
Equipment to Measure and Output Resistance ^{FO}	1 m Ω to 10 m Ω	0.019 v	
	10.1 m Ω to 100 m Ω	0.041 Ω	
	101 m Ω to 1 Ω	0.032 Ω	
	1.01 Ω to 10 Ω	0.000 7 Ω	
	10.1 Ω to 100 Ω	0.006 9 Ω	
	101 k Ω to 1 M Ω	0.069 Ω	
	1 M Ω to 100 M Ω	0.001 1 Ω	

- 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.



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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. Example: Outside Micrometer^F would mean that the laboratory performs this calibration at its fixed location.
4. The presence of a superscript FO means that the laboratory performs calibration of the indicated parameter both at its fixed location and onsite at customer locations. Example: Outside Micrometer^{FO} would mean that the laboratory performs this calibration at its fixed location and 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.
6. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.
7. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.