



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

SINDUKOM, S.C. DE R.L. DE C.V.

***Santiago No. 11, Interior 2, Colonia Los Reyes
Alcaldía Coyoacán, Ciudad de México, México. C.P. 04330***

*(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):

Mass, Force and Weighing Devices and Thermodynamic 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/Operations Manager

Initial Accreditation Date:

June 27, 2020

Issue Date:

June 27, 2020

Expiration Date:

October 31, 2022

Accreditation No.:

56014

Certificate No.:

L20-359

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.pjlabs.com*



Certificate of Accreditation: Supplement

SINDUKOM, S.C. DE R.L. DE C.V.

Santiago No. 11, Interior 2, Colonia Los Reyes
Alcaldía Coyoacán, Ciudad de México, México. C.P. 04330
Contact Name: Pablo Martínez Ramírez Phone: 551-767-6890

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
Electronic Balance ^{FO}	1 g to 10 kg (Res.= 0.001 mg)	(0.0171 + 0.938Wt) mg	OIML E2 Mass Weights Mass Weights NOM-010-SCFI
Analytical Balance ^{FO}	1 g to 10 kg (Res.= 1 mg)	(1.038 + 9.4Wt) mg	
Scales ^O	1 kg to 20 kg (Res.= 50 mg)	78 mg	
	1 kg to 50 kg (Res.= 100 mg)	0.16 g	
	10 kg to 100 kg (Res.= 2 g)	3.4 g	
	10 kg to 200 kg (Res.= 5 g)	7.1 g	
	100 kg to 500 kg (Res.= 10 g)	17 g	
	100 kg to 1 000 kg (Res.= 20 g)	34 g	
	500 kg to 2 000 kg (Res.= 50 g)	71 g	
	100 kg to 5 000 kg (Res.= 100 g)	0.17 kg	
	2 500 kg to 10 000 kg (Res.= 50 g)	(0.084 + 0.31Wt) kg	OIML M1 Mass Weights NOM-010-SCFI
	5 000 kg to 15 000 kg (Res.= 100 g)	(0.17 + 0.48Wt) kg	
	5 000 kg to 25 000 kg (Res.= 100 g)	(0.17 kg + 0.74Wt) kg	
	6 000 kg to 30 000 kg (Res.= 200 g)	(0.24 + 1Wt) kg	
	5 000 kg to 40 000 kg (Res.= 100 g)	(0.17 + 0.79Wt) kg	
	5 000 kg to 50 000 kg (Res.= 100 g)	(0.17 + 0.8Wt) kg	
Mass Weights Class F1 ^F	1 mg to 20 kg	(0.004 1 + 25Wt) mg	Class E2 Mass Weights OIML R-111 NOM-038-SCF
Mass Weights Class F2 ^F	1 mg to 20 kg	(0.011+ 85Wt) mg	
Mass Weights Class M1 ^F	1 mg to 50 kg	(0.042 + 2.3 x 10 ⁻⁴ Wt) mg	Class E2 y F1 Mass Weights OIML R-111 NOM-038-SCFI



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Mass Weights Class M2 ^F	100 mg to 50 kg	$(0.042 + 2.3 \times 10^{-4} \text{Wt}) \text{ mg}$	Class E2 Mass Weights OIML R-111 NOM-038-SCFI
Mass Weights Class M1-M2 ^F	500 kg	14 g	Class M1 Mass Weights OIML R-111 NOM-038-SCFI
Mass Weights Class 4 ASTM E617 ^F	25 000 g	0.4 g	Class E2 Mass Weights OIML R-111 NOM-038-SCFI
Weight Non-standardized ^F	1 g to 205 g	$(0.25 + 2.9 \text{Wt}) \text{ mg}$	Class F2 Mass Weights OIML R-111 NOM-038-SCFI
	205 g to 1 200 g	$(3 + 16 \text{Wt}) \text{ mg}$	
	1 200 g to 15 000 g	$(0.018 + 7.7 \times 10^{-2} \text{Wt}) \text{ g}$	Class F1 and F2 Mass Weights OIML R-111 NOM-038-SCFI
	15 kg to 32 kg	$(0.11 + 0.16 \text{Wt}) \text{ g}$	
	32 kg to 60 kg	$(0.87 + 1.2 \text{Wt}) \text{ g}$	Class E2, F1 y F2 Mass Weights OIML R-111 NOM-038-SCFI

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
Thermocouple Type K, J and T ^F	-30 °C to 400 °C	0.88 °C	Fluke 51 II or Platinum Resistance Hard scientific, Dry Well, Liquid Temperature Bath CENAM Technical Guide
Bimetallic Thermometer ^{FO}	-30 °C to 400 °C	0.88 °C	
Thermometer Digital ^{FO}	-30 °C to 400 °C	0.88 °C	
Thermohygrometer Only Humidity ^{FO}	40 % RH to 60 % HR	1.1 % RH	Humidity Chamber and Digital Thermohygrometer Technical Guide CENAM

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.



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

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 O means that the laboratory performs calibration of the indicated parameter onsite at customer locations. Example: Outside Micrometer^O would mean that the laboratory performs this calibration onsite at the customer's location.
5. 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.
6. 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.
7. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement