



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Laboratorio de Calibración y Servicios Metrológicos S. de R.L. de C.V.

***28 de agosto #318, Barrio de la Estación
Aguascalientes, Aguascalientes, México. C.P. 20259***

*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:

***Dimensional, Mechanical, Mass, Force and Weighting Devices, Thermodynamic
and Electrical Calibration
(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:

Initial Accreditation Date:

Issue Date:

Expiration Date:

September 03, 2025

September 03, 2025

November 30, 2027

Accreditation No.:

Certificate No.:

129619

L25-675

Tracy Szerszen
President

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

Laboratorio de Calibración y Servicios Metrológicos S. de R.L. de C.V.

28 de agosto #318, Barrio de la Estación
Aguascalientes, Aguascalientes, México. C.P. 20259
Contact Name: David Parroquín Vargas Phone: 449-962-8022

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

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ($\pm$) ¹	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Dimensional	Caliper	0.5 mm to 1 500 mm (Res.= 0.01mm)	$(6.26 + 3 \times 10^{-6}L) \mu\text{m}$	Gage Blocks Grade 0 Gage blocks Grade 1, Accessory Gages Block	M7.2-02-CA Internal Procedure CEM DI-008	F1, F2, F3	F, O
Dimensional	Caliper	0.05 in to 8 in (Res.= 0.000 5 in)	0.000 32 in	Gage Blocks Grade 0	M7.2-02-CA Internal Procedure CEM DI-008	F1, F2, F3	F, O
Dimensional	Linear Scales External (Process and Integrated Indicator)	0.5 mm to 1 500 mm	$(6.26 + 3 \times 10^{-6}L) \mu\text{m}$	Gage Blocks Grade 0, Gage Blocks Grade 1, Accessory Gages Block	M7.2-02-CA Internal Procedure CEM DI-008	F1, F2, F3	F, O
Dimensional	Outside Micrometer	0.5 mm to 300 mm (Res.= 0.001 mm)	$(0.56 + 2.9 \times 10^{-3}L) \mu\text{m}$	Gage Blocks Grade 0	M7.2-01-ME Internal Procedure, CEM DI-005	F1, F2, F3	F, O
Dimensional	Outside Micrometer	0.5mm to 300mm (Res.= 0.01 mm)	$(4.74 + 2.6 \times 10^{-4}L) \mu\text{m}$	Gage Blocks Grade 0	M7.2-01-ME Internal Procedure, CEM DI-005	F1, F2, F3	F, O
Dimensional	Outside Micrometer	0.5 mm to 25 mm (Res.= 0.00001 mm)	$(0.14 + 2.52 \times 10^{-3}L) \mu\text{m}$	Gage Blocks Grade 0	M7.2-01-ME Internal Procedure CEM DI-005	F1, F2, F3	F
Dimensional	Outside Micrometer	0.05 in to 8 in (Res.= 0.00005 in)	$(0.000032 + 7.4 \times 10^{-6}L) \text{ in}$	Gage Blocks Grade 0	M7.2-01-ME Internal Procedure CEM DI-005.	F1, F2, F3	F
Dimensional	Outside Micrometer	0.05 in to 8 in (Res.= 0.0001 in)	$(0.000058 + 5.5 \times 10^{-6}L) \text{ in}$	Gage Blocks Grade 0	M7.2-01-ME Internal Procedure CEM DI-005.	F1, F2, F3	F



Certificate of Accreditation: Supplement

Laboratorio de Calibración y Servicios Metrológicos S. de R.L. de C.V.

28 de agosto #318, Barrio de la Estación
Aguascalientes, Aguascalientes, México. C.P. 20259
Contact Name: David Parroquín Vargas Phone: 449-962-8022

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

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ($\pm$) ¹	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Dimensional	Inside Micrometer (Two Contacts)	0.5 mm to 300 mm (Res. = 0.001)	$(0.61 + 2.1 \times 10^{-3}L) \mu\text{m}$	Gage Blocks Grade 0, Accessory Gages Block	M7.2-04-MI Internal Procedure CEM DI-021	F1, F2, F3	F, O
Dimensional	Inside Micrometer (Two Contacts)	0.5 mm to 300 mm (Res.=0.01)	$(4.75 + 3 \times 10^{-4}L) \mu\text{m}$	Gage Blocks Grade 0, Accessory Gages Block	M7.2-04-MI Internal Procedure CEM DI-021	F1, F2, F3	F, O
Dimensional	Inside Micrometer (Two Contacts)	0.05 in to 8 in (Res.= 0.000 05 in)	$(0.000031 + 7.9 \times 10^{-6}L) \text{ in}$	Gage Blocks Grade 0, Accessory Gages Block	M7.2-04-MI Internal Procedure CEM DI-021	F1, F2, F3	F, O
Dimensional	Height Gages	0.5 mm to 1 000 mm (Res.= 0.01 mm)	$(7.69 + 2.7 \times 10^{-3}L) \mu\text{m}$	Gage Blocks Grade 0, Gage Blocks Grade 1, Accessory Gages Block	M7.2-02-CA Internal Procedure NMX-CH-141-IMNC	F1, F2, F3	F, O
Dimensional	Digital Indicator	0.5 mm to 100 mm (Res.= 0.0005 mm)	$(0.39 + 7.4 \times 10^{-3}L) \mu\text{m}$	Gage Blocks Grade 0 Feeler Gage Granite Plate	M7.2-05-IV Internal procedure CEM DI-010	F1, F2, F3	F, O
Dimensional	Digital Indicator	0.5 mm to 100 mm (Res.= 0.001 mm)	$(0.74 + 1.9 \times 10^{-2}L) \mu\text{m}$	Gage Blocks Grade 0 Feeler Gage Granite Plate	M7.2-05-IV Internal procedure CEM DI-010	F1, F2, F3	F, O
Dimensional	Digital Indicator	0.5 mm to 100 mm (Res.= 0.01 mm)	4.8 μm	Gage Blocks Grade 0 Feeler Gage Granite Plate	M7.2-05-IV Internal procedure CEM DI-010	F1, F2, F3	F, O
Dimensional	Digital Indicator	0.05 in to 4 in (Res.= 0.000 02 in)	$(1.7 \times 10^{-5} + 5.8 \times 10^{-6}L) \text{ in}$	Feeler Gage, Gage Blocks Grade 0, Granite Plate	M7.2-05-IV Internal Procedure CEM DI-010	F1, F2, F3	F, O



Certificate of Accreditation: Supplement

Laboratorio de Calibración y Servicios Metrológicos S. de R.L. de C.V.

28 de agosto #318, Barrio de la Estación
Aguascalientes, Aguascalientes, México. C.P. 20259
Contact Name: David Parroquín Vargas Phone: 449-962-8022

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

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ($\pm$) ¹	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Dimensional	Dial Test Indicator	0.05 mm to 1 mm (Res.= 0.002 mm)	1.3 μ m	Steel Feeler Gages, Gage Blocks Grade 0, Granite Plate	M7.2-06-IP Internal Procedure, CEM DI-010 NMX-CH-149-IMNC	F1, F2, F3	F, O
Dimensional	Dial Test Indicator	0.05 mm to 1 mm (Res.= 0.01 mm)	4.8 μ m	Steel Feeler Gages, Gage Blocks Grade 0, Granite Plate	M7.2-06-IP Internal Procedure, CEM DI-010 NMX-CH-149-IMNC	F1, F2, F3	F, O
Dimensional	Bore Gages	0.5 mm to 300 mm (Res.= 0.001 mm)	$(0.74 + 1.9 \times 10^{-2}L) \mu$ m	Gage Blocks Grade 0, Gage Blocks Grade 1, Accessory Gages Block	M7.2-05-IV Internal Procedure CEM DI-010	F1, F2, F3	F, O
Dimensional	Bore Gages	0.5 mm to 300 mm (Res.= 0.01 mm)	4.8 μ m	Gage Blocks Grade 0, Gage Blocks Grade 1, Accessory Gages Block	M7.2-05-IV Internal Procedure CEM DI-010	F1, F2, F3	F, O
Dimensional	Bore Gages	0.050 in to 8 in (Res.= 0.0001)	$(0.000017 + 5.8 \times 10^{-6}L)$ in	Gage Blocks Grade 0, Accessory Gages Block	M7.2-05-IV Internal Procedure CEM DI-010	F1, F2, F3	F, O
Dimensional	Thickness Gages (Dial & Digital)	0.5 mm to 50 mm (Res.= 0.001 mm)	$(0.74 + 1.9 \times 10^{-2}L) \mu$ m	Steel Feeler Gages, Gage Blocks Grade 0	M7.2-14-MS Internal Procedure CEM DI-010	F1, F2, F3	F, O
Dimensional	Thickness Gages (Dial & Digital)	0.5 mm to 50 mm (Res.= 0.01mm)	4.8 μ m	Steel Feeler Gages, Gage Blocks Grade 0	M7.2-14-MS Internal Procedure CEM DI-010	F1, F2, F3	F, O



Certificate of Accreditation: Supplement

Laboratorio de Calibración y Servicios Metrológicos S. de R.L. de C.V.

28 de agosto #318, Barrio de la Estación
Aguascalientes, Aguascalientes, México. C.P. 20259
Contact Name: David Parroquín Vargas Phone: 449-962-8022

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

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ($\pm$) ¹	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Dimensional	Thickness Gages (Dial & Digital)	0.05 in to 2 in	0.000 012 in	Steel Feeler Gages, Gage Blocks Grade 0	M7.2-14-MS Internal procedure CEM DI-010	F1, F2, F3	F, O
Dimensional	Feeler Gauges, (Class 1 & Class 2)	0.03 mm to 1 mm	0.99 μ m	Dial indicator, Res 0.000 1 mm, Granite Plate	M7.2-15-LA Internal Procedure DIN 2275	F1, F2, F3	F, O
Dimensional	Optical Comparator (X Axis Linearity)	0.1 mm to 300 mm	(1.95 + 1.6 x 10 ⁻³ L) μ m	Glass rule	M7.2-16-CO Internal Procedure CEM DI-001	F1, F2, F3	O
Dimensional	Optical Comparator (Y Axis Linearity)	0.1 mm to 300 mm	(1.95 + 1.6 x 10 ⁻³ L) μ m	Glass rule	M7.2-16-CO Internal Procedure CEM DI-001	F1, F2, F3	O
Dimensional	Tapes	Up to 10 000 mm (Res.= 1 mm)	10 μ m	Master Rule, Optical Reticle, Vision Measurement (Microscope)	M7.2-13-RE Internal Procedure CEM DI-011	F1, F2, F3	F
Dimensional	Rulers	Up to 2 000 mm	10 μ m	Master Rule, Optical Reticle, Vision Measurement (Microscope)	M7.2-13-RE Internal Procedure CEM DI-012	F1, F2, F3	F
Dimensional	Protractor and Angle Meter	1° to 30°	0.05°	Angle Gage Blocks,	M7.2-07-GO Internal Procedure CEM DI-003 NMX-CH-149-IMNC	F1, F2, F3	F, O



Certificate of Accreditation: Supplement

Laboratorio de Calibración y Servicios Metrológicos S. de R.L. de C.V.

28 de agosto #318, Barrio de la Estación

Aguascalientes, Aguascalientes, México. C.P. 20259

Contact Name: David Parroquín Vargas Phone: 449-962-8022

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

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ($\pm$) ¹	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Dimensional	Protractor and Angle Meter	45°	0.05°	Angle Gage Blocks,	M7.2-07-GO Internal Procedure CEM DI-003 NMX-CH-149-IMNC	F1, F2, F3	F, O
Dimensional	Protractor and Angle Meter	60°	0.05°	Angle Gage Blocks,	M7.2-07-GO Internal Procedure CEM DI-003 NMX-CH-149-IMNC	F1, F2, F3	F, O
Dimensional	Protractor and Angle Meter	90°	0.05°	Angle Gage Blocks,	M7.2-07-GO Internal Procedure CEM DI-003 NMX-CH-149-IMNC	F1, F2, F3	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers (HRA)	20 HRA to 65 HRA	0.31 HRA	Test Blocks	M7.2-08-HR Internal Procedure ASTM E18	F1, F2, F3	O
Mechanical	Indirect Verification of Rockwell Hardness Testers (HRA)	70 HRA to 78 HRA	0.31 HRA	Test Blocks	M7.2-08-HR Internal Procedure ASTM E18	F1, F2, F3	O
Mechanical	Indirect Verification of Rockwell Hardness Testers (HRA)	80 HRA to 84 HRA	0.31 HRA	Test Blocks	M7.2-08-HR Internal Procedure ASTM E18	F1, F2, F3	O
Mechanical	Indirect Verification of Rockwell Hardness Testers (HRC)	20 HRC to 30 HRC	0.39 HRC	Test Blocks	M7.2-08-HR Internal Procedure ASTM E18	F1, F2, F3	O



Certificate of Accreditation: Supplement

Laboratorio de Calibración y Servicios Metrológicos S. de R.L. de C.V.

28 de agosto #318, Barrio de la Estación
Aguascalientes, Aguascalientes, México. C.P. 20259
Contact Name: David Parroquín Vargas Phone: 449-962-8022

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

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ($\pm$) ¹	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Mechanical	Indirect Verification of Rockwell Hardness Testers (HRC)	35 HRC to 55 HRC	0.35 HRC	Test Blocks	M7.2-08-HR Internal Procedure ASTM E18	F1, F2, F3	O
Mechanical	Indirect Verification of Rockwell Hardness Testers (HRC)	60 HRC to 65 HRC	0.31 HRC	Test Blocks	M7.2-08-HR Internal Procedure ASTM E18	F1, F2, F3	O
Mechanical	Indirect Verification of Rockwell Hardness Testers (HRBW)	40 HRBW to 59 HRBW	0.74 HRBW	Test Blocks	M7.2-08-HR Internal Procedure ASTM E18	F1, F2, F3	O
Mechanical	Indirect Verification of Rockwell Hardness Testers (HRBW)	60 HRBW to 79 HRBW	0.27 HRBW	Test Blocks	M7.2-08-HR Internal Procedure ASTM E18	F1, F2, F3	O
Mechanical	Indirect Verification of Rockwell Hardness Testers (HRBW)	80 HRBW to 100 HRBW	0.37 HRBW	Test Blocks	M7.2-08-HR Internal Procedure ASTM E18	F1, F2, F3	O
Mass, Force and Weighting Devices	Analytical Balance	1 mg to 1 020 g (Res.= 0.001 g)	$(0.32 \times 10^{-4} + 2 \times 10^{-5} \text{Wt})$ mg	Weight Set E2	M7.2-09-BA Internal Procedure Euramet cg-18	F1, F2, F3	F, O
Mass, Force and Weighting Devices	Balances	1 g to 1 000g (Res.= 0.001 g)	$(7.81 \times 10^{-3} + 4 \times 10^{-6} \text{Wt})$ mg	Weight Set F1, 1 g to 5 kg 10 kg, 20 kg	M7.2-09-BA Internal Procedure Euramet cg-18	F1, F2, F3	F, O
Mass, Force and Weighting Devices	Balances	1 g to 5 000 g (Res.= 0.01 g)	$3.9 \times 10^{-2} + 4 \times 10^{-6} \text{Wt})$ mg	Weight Set F1, 1 g to 5 kg 10 kg, 20 kg	M7.2-09-BA Internal Procedure Euramet cg-18	F1, F2, F3	F, O
Mass, Force and Weighting Devices	Balances	100 g to 30 kg (Res.= 0.000 1 kg)	$(4.2 \times 10^{-3} + 2 \times 10^{-6} \text{Wt})$ g	Weight Set F1, 1 g to 5 kg 10 kg, 20 kg	M7.2-09-BA Internal Procedure Euramet cg-18	F1, F2, F3	F, O



Certificate of Accreditation: Supplement

Laboratorio de Calibración y Servicios Metrológicos S. de R.L. de C.V.

28 de agosto #318, Barrio de la Estación

Aguascalientes, Aguascalientes, México. C.P. 20259

Contact Name: David Parroquín Vargas Phone: 449-962-8022

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

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ($\pm$) ¹	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Mass, Force and Weighting Devices	Scale	0.005 g to 40 kg (Res.= 0.005 g)	$(8.15 \times 10^{-3} + 3 \times 10^{-6} Wt) \text{ g}$	Parallelepiped Weight M1, Weight Set F1,	M7.2-09-BA Internal Procedure Euramet cg-18	F1, F2, F3	F, O
Mass, Force and Weighting Devices	Scale	1 kg to 200 kg (Res.= 0.02 kg)	$(1.15 \times 10^{-2} + 3 \times 10^{-6} Wt) \text{ g}$	Parallelepiped Weight M1, Weight Set F1,	M7.2-09-BA Internal Procedure Euramet cg-18	F1, F2, F3	F, O
Mass, Force and Weighting Devices	Scale	100 g to 500 kg (Res.= 0.02 kg)	$(3.05 \times 10^{-2} + 3 \times 10^{-6} Wt) \text{ g}$	Parallelepiped Weight M1, Weight Set F1,	M7.2-09-BA Internal Procedure Euramet cg-18	F1, F2, F3	F, O
Mass, Force and Weighting Devices	Scale	5 kg to 1 000 kg (Res.= 0.5 kg)	$(4.79 + 6.42 \times 10^{-5} Wt) \text{ g}$	Parallelepiped Weight M1,	M7.2-09-BA Internal Procedure Euramet cg-18	F1, F2, F3	F, O
Mass, Force and Weighting Devices	Scales	5 kg to 1 500 kg (Res.= 0.5 kg)	$(4.79 + 6.42 \times 10^{-5} Wt) \text{ g}$	Parallelepiped Weight M1	M7.2-09-BA Internal Procedure Euramet cg-18	F1, F2, F3	F, O
Mass, Force and Weighting Devices	Scales	5 kg to 1 500 kg (Res.= 1 kg)	$(61.59 + 1.87 \times 10^{-5} wt) \text{ g}$	Parallelepiped Weight M1	M7.2-09-BA Internal Procedure Euramet cg-18	F1, F2, F3	F, O
Thermodynamic	Direct Reading Industrial Thermometers	25 °C to 400 °C (Res.= 0.1 °C)	0.57 °C	Process Calibrator Fluke 744, Thermocouple RTD Pt100 and Drywell Muffle Furnace	M7.2-10-TT Internal Procedure CEM TH-001	F1, F2, F3	F, O



Certificate of Accreditation: Supplement

Laboratorio de Calibración y Servicios Metrológicos S. de R.L. de C.V.

28 de agosto #318, Barrio de la Estación
Aguascalientes, Aguascalientes, México. C.P. 20259
Contact Name: David Parroquín Vargas Phone: 449-962-8022

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

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ($\pm$) ¹	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Thermodynamic	Direct Reading Industrial Thermometers	400 °C to 650 °C (Res.= 0.1 °C)	0.57 °C	Process Calibrator Fluke 744, Thermocouple K, E, and Drywell Muffle Furnace.	M7.2-10-TT Internal Procedure CEM TH-001	F1, F2, F3	F, O
Thermodynamic	Industrial Thermometer for Refrigerators, Controlled Temperature Rooms	-20 °C to 25 °C	0.09 °C	DAQ National 16 Channels, Thermocouple Type E	M7.2-12-CN Internal procedure SAE AMS 2750E	F1, F2, F3	O
Thermodynamic	Oven	20 °C to 800 °C	0.09 °C	DAQ National 16 Channels, Thermocouple Type E	M7.2-12-CN Internal Procedure SAE AMS 2750E	F1, F2, F3	O
Thermodynamic	Muffles and Furnace	500 °C to 1 100 °C	0.09 °C	DAQ National 16 Channels, Thermocouple Type E	M7.2-12-CN Internal Procedure, SAE AMS 2750E	F1, F2, F3	O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type J	-180 °C to 1 080 °C	0.07 °C	Process Calibrator Fluke 744 Electrical Simulation of Thermocouple Output	M7.2-11-TE Internal Procedure Euramet_cg-11	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type K	-180 °C to 1 233 °C	0.097 °C	Process Calibrator Fluke 744 Electrical Simulation of Thermocouple Output	M7.2-11-TE Internal Procedure Euramet_cg-11	F1, F2, F3	F, O
Electrical	Temperature Calibration, simulation, Indication and Control Equipment Used with Thermocouple Type E	-250 °C to 1 000 °C	0.1 °C	Process Calibrator Fluke 744 Electrical Simulation of Thermocouple Output	M7.2-11-TE Internal Procedure Euramet_cg-11	F1, F2, F3	F, O



Certificate of Accreditation: Supplement

Laboratorio de Calibración y Servicios Metrológicos S. de R.L. de C.V.

28 de agosto #318, Barrio de la Estación
Aguascalientes, Aguascalientes, México. C.P. 20259
Contact Name: David Parroquín Vargas Phone: 449-962-8022

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

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ($\pm$) ¹	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Pt 100	-180 °C to 720 °C	0.052 °C	Fluke 744 Electrical Simulation of RTD Output	M7.2-11-TE Internal Procedure Euramet_cg-11	F1, F2, F3	F, O

- The CMC (Calibration and Measurement Capability) is expressed in terms of measurement instrument/aspect being calibrated, range, expanded measurement uncertainty, equipment, and method/procedure. The expanded measurement uncertainty 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 measurement uncertainty included on this scope 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.
- The laboratory's range of calibration capability for all disciplines for which it is 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.
- Location of activity:

Location Code	Location
F	Conformity assessment activity is performed at the CAB's fixed facility
O	Conformity assessment activity is performed onsite at the CAB's customer location
- Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratory's 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 laboratory's fixed location.
- The term L represents length in inches or millimeters as appropriate to the uncertainty statement.



Certificate of Accreditation: Supplement

Laboratorio de Calibración y Servicios Metrológicos S. de R.L. de C.V.

28 de agosto #318, Barrio de la Estación

Aguascalientes, Aguascalientes, México. C.P. 20259

Contact Name: David Parroquín Vargas Phone: 449-962-8022

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

6. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.

7. Flex Codes

F0: When no flexibility is identified. There are no changes to items calibrated, characteristics identified or versions of methods except for updating to the most recent version of a standard method after verification.

F1: The laboratory has the capability to introduce a new instrument, quantity, or gauge for an accredited calibration method.

F2: The laboratory has the capability to introduce the newest revision of an accredited authoritative standard method (with no modifications) identified on the scope

F3: The 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

F4: The laboratory has the capability to introduce a validated method that is equivalent to an accredited method (using the same Calibration Equipment or Reference Standards identified on the scope for the same parameter, component, or analyte identified on the line item of the scope.

