



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Servicios Industriales y de Apoyo de la Laguna, S.A. de C.V.
Calzada Hacienda el Rosario # 4 Local 8, Residencial Hacienda el Rosario
Torreón, Coahuila, México. C.P. 27019

*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, Mass, Force and Weighing Devices, Electrical, Mechanical,
Thermodynamic, Time and Frequency, Chemical and Optical 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:

Tracy Szerszen
President

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

Initial Accreditation Date:

July 09, 2012

Revision Date:

November 04, 2025

Issue Date:

November 07, 2024

Accreditation No.:

72789

Expiration Date:

December 31, 2026

Certificate No.:

L24-864-R1

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.pjlab.com



Certificate of Accreditation: Supplement

Servicios Industriales y de Apoyo de la Laguna, S.A. de C.V.

Calzada Hacienda el Rosario # 4 Local 8, Residencial Hacienda el Rosario

Torreón, Coahuila, México. C.P. 27019

Contact Name: Carlos Armando Herrera. Phone: 871-204-4033

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	Calipers	1 mm to 610 mm	$(5.99 + 2.68 \times 10^{-2}L) \mu\text{m}$	Block Gages 0 Mitutoyo	JIS B7507	F1, F2	F
Dimensional	Micrometers	1 mm to 610 mm	$(9.83 \times 10^{-1} + 1.67 \times 10^{-2}L) \mu\text{m}$	Block Gages 0 Mitutoyo	JIS B7502	F1, F2	F
Dimensional	Height Gages	1 mm to 610 mm	$(5.99 + 2.68 \times 10^{-2}L) \mu\text{m}$	Block Gages 0 Mitutoyo	JIS B7517	F1, F2	F
Dimensional	Indicators	1 mm to 25 mm	$(5.78 + 0.8L) \mu\text{m}$	Block Gages 0 Mitutoyo	JIS B7503	F1, F2	F
Dimensional	Measurement Tapes	1 000 mm to 30 000 mm	0.87 mm	Master Rule / Optical Reticule Mitutoyo Mod 183-304 (Res.= 0.5 mm)	JIS B7512	F1, F2	F
Dimensional	Rules (Error of Indication)	5 mm to 2 540 mm	0.076 mm	Master Rule / Optical Reticule Mitutoyo Mod 183-304 (Res.= 0.5 mm)	JIS B7516	F1, F2	F
Dimensional	Fixtures & Gages (X Axis)	1 mm to 700 mm	2.8 μm	CMM Mitutoyo	ASME Y14.5 M	F1, F2	F
Dimensional	Fixtures & Gages (Y Axis)	1 mm to 1 000 mm	2.8 μm	CMM Mitutoyo	ASME Y14.5 M	F1, F2	F
Dimensional	Fixtures & Gages (Z Axis)	1 mm to 600 mm	2.8 μm	CMM Mitutoyo	ASME Y14.5 M	F1, F2	F
Dimensional	Fixtures & Gages (X Axis)	1 mm to 3 000 mm	0.043 mm	Faro Arm	ASME Y14.5 M	F1, F2	F, O
Dimensional	Fixtures & Gages (Y Axis)	1 mm to 3 000 mm	0.043 mm	Faro Arm	ASME Y14.5 M	F1, F2	F, O



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Dimensional	Fixtures & Gages (Z Axis)	1 mm to 3 000 mm	0.043 mm	Faro Arm	ASME Y14.5 M	F1, F2	F, O
Dimensional	Fixtures & Gages (X Axis)	1 mm to 3 000 mm	0.092 mm	Faro Scanner	ASME Y14.5 M	F1, F2	F, O
Dimensional	Fixtures & Gages (Y Axis)	1 mm to 3 000 mm	0.092 mm	Faro Scanner	ASME Y14.5 M	F1, F2	F, O
Dimensional	Fixtures & Gages (Z Axis)	1 mm to 3 000 mm	0.092 mm	Faro Scanner	ASME Y14.5 M	F1, F2	F, O
Dimensional	Pin Gage	0.01 mm to 25.4 mm	$(2.5 + 6.3 \times 10^{-2}L) \mu\text{m}$	Micrometer	ASME B 89 1.5 DIN 2269	F1, F2	F
Dimensional	Optical Comparator (X Axis Linearity)	250 mm	$(2 + 5 \times 10^{-3}L) \mu\text{m}$	Glass Scale Gage Blocks	JIS B 7184	F1, F2	F, O
Dimensional	Optical Comparator (Y Axis Linearity)	250 mm	$(2 + 5 \times 10^{-3}L) \mu\text{m}$	Glass Scale Gage Blocks	JIS B 7184	F1, F2	F, O
Dimensional	Optical Comparator (Magnification)	5X	0.05 % of magnification	Glass Scale Gage Blocks	JIS B 7184	F1, F2	F, O
Dimensional	Optical Comparator (Magnification)	10X	0.05 % of magnification	Glass Scale Gage Blocks	JIS B 7184	F1, F2	F, O
Dimensional	Optical Comparator (Magnification)	20X	0.05 % of magnification	Glass Scale Gage Blocks	JIS B 7184	F1, F2	F, O
Dimensional	Optical Comparator (Angularity)	0° to 180°	0.83°	Glass Scale/Angular Blocks / Gage Blocks, Protractor	JIS B 7184	F1, F2	F, O
Dimensional	Microscope (Magnification)	5X	2 μm	Glass Scale	JIS B 7153	F1, F2	F, O
Dimensional	Microscope (Magnification)	10X	2.1 μm	Glass Scale	JIS B 7153	F1, F2	F, O



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Dimensional	Microscope (Magnification)	20X	2.3 μ m	Glass Scale	JIS B 7153	F1, F2	F, O
Dimensional	Articulated Arm Coordinate Measuring Machine (AACMM) (Volumetric Performance)	Up to 3 650 mm	4 μ m	Metrology Works Ball Bar / Linear Gage	ASME B89.4.22	F1, F2	F
Dimensional	Articulated Arm Coordinate Measuring Machine (AACMM) (Effective Diameter)	Up to 25 mm	2 μ m	Mitutoyo Ceramic Test Sphere	ASME B89.4.22	F1, F2	F
Dimensional	Articulated Arm Coordinate Measuring Machine (AACMM) (Length Measurement) (Error Unidirectional)	Up to 1 050 mm	3.3 μ m	25 mm Ceramic Sphere Ball Bar Metrology works / 711 mm and 1 050 mm Bars	ASME B89.4.22	F1, F2	F
Dimensional	Articulated Arm Coordinate Measuring Machine (AACMM) (Length Measurement) (Error Unidirectional)	Up to 1 800 mm	4.1 μ m	25 mm Ceramic Sphere Ball Bar Metrology Works / 711 mm and 1800 mm Bars	ASME B89.4.22	F1, F2	F
Dimensional	Articulated Arm Coordinate Measuring Machine (AACMM) (Length Measurement) (Error Unidirectional)	Up to 2 420 mm	6.6 μ m	25 mm Ceramic Sphere Ball Bar Metrology Works / 711 mm and 2 500 mm Bars	ASME B89.4.22	F1, F2	F



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Dimensional	Articulated Arm Coordinate Measuring Machine (AACMM) (Length Measurement) (Error Unidirectional)	Up to 3 080 mm	8.6 μ m	25 mm Ceramic Sphere Ball Bar Metrology Works / 711 mm and 3 100 mm Bars	ASME B89.4.22	F1, F2	F
Dimensional	Articulated Arm Coordinate Measuring Machine (AACMM) (Length Measurement) (Error Unidirectional)	Up to 3 650 mm	10 μ m	25 mm Ceramic Sphere Ball Bar Metrology Works / 711 mm and 3 800 mm Bars	ASME B89.4.22	F1, F2	F
Dimensional	Articulated Arm Coordinate Measuring Machine (AACMM) (Optical Sensor)	Sphere Diameter: 25.4 mm	4 μ m	Ball Bar with Metrology works Spheres of 25.4 mm and Mitutoyo Ceramic Test Sphere of 25 mm	ISO 10360-8	F1, F2	F
Dimensional	Thread Plug Gauge (Major Diameter)	4.76 mm to 107.95 mm	7.5 μ m	Micrometer Mitutoyo, Mitutoyo Wire Set 313-101	ASME B1.2 / ASME B.1.16M	F1, F2	F, O
Dimensional	Thread Plug Gauge (Major Diameter)	6/32 in to 4-1/4 in	300 μ in	Micrometer Mitutoyo, Mitutoyo Wire Set 313-101	ASME B1.2 / ASME B.1.16M	F1, F2	F, O
Dimensional	Thread Plug Gauge (Pitch Diameter)	4.76 mm to 107.95 mm	7.5 μ m	Micrometer Mitutoyo, Mitutoyo Wire Set 313-101	ASME B1.2 / ASME B.1.16M	F1, F2	F, O



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Dimensional	Thread Plug Gauge (Pitch Diameter)	6/32 in to 4-1/4 in	300 μ m	Micrometer Mitutoyo, Mitutoyo Wire Set 313-101	ASME B1.2 / ASME B.1.16M	F1, F2	F, O
Dimensional	Feeler Gage	0.025 4 mm to 6.35 mm	5.8 μ m	Micrometer Mitutoyo	JIS B 7524	F1, F2	F, O
Dimensional	Feeler Gage	0.001 in to 0.25 inch	230 μ m	Micrometer Mitutoyo	JIS B 7524	F1, F2	F, O
Dimensional	Coating Thickness Gage Ferrous Base	0.075 mm to 1.5mm	0.89 μ m	Coating Thickness Standard Comparison	ASTM E376	F1, F2	F, O
Dimensional	Coating Thickness Gage Ferrous Base	0.003 in to 0.06 in	35 μ m	Coating Thickness Standard Comparison	ASTM E376	F1, F2	F, O
Dimensional	Ultrasonic Thickness Gage	2.5 mm to 12.5 mm	25 μ m	Defelsko Block Set Gage	ASTM E797	F1, F2	F, O
Dimensional	Ultrasonic Thickness Gage	0.000 98 in to 0.492 in	990 μ m	Defelsko Block Set Gage	ASTM E797	F1, F2	F, O
Dimensional	Granite Table, Surface Plate (Repeat Measurement)	304 mm to 1 219 mm	1.4 μ m	Repeat O Meter	DIN 876 / ASME B89.3.7	F1, F2	F, O
Dimensional	Granite Table, Surface Plate (Repeat Measurement)	12 in to 48 in	39 μ m	Repeat O Meter	DIN 876 / ASME B89.3.7	F1, F2	F, O
Dimensional	True Meter Length Meter Counter (Odometer)	Up to 1 000 m	0.062 m	Master Rule, Caliper	Internal Procedure PC-7.2-065	F1, F3	F, O
Dimensional	Plain Ring Gages (Class XX)	165.35 mm to 300 mm	5.1 μ m	Mitutoyo CMM	ASME B89.1.6	F1, F2	F, O
Dimensional	Plain Ring Gages	6.51 in to 12.01 in	0.2 μ m	Mitutoyo CMM	ASME B89.1.6	F1, F2	F, O



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	(Class XX)						
Dimensional	Plain Ring Gages (Class X)	38.35 mm to 300 mm	5.1 μ m	Mitutoyo CMM	ASME B89.1.6	F1, F2	F, O
Dimensional	Plain Ring Gages (Class X)	1.51 in to 12.01 in	0.2 μ m	Mitutoyo CMM	ASME B89.1.6	F1, F2	F, O
Dimensional	Plain Ring Gages (Class Y)	20.96 mm to 300 mm	5.1 μ m	Mitutoyo CMM	ASME B89.1.6	F1, F2	F, O
Dimensional	Plain Ring Gages (Class Y)	0.825 in to 12.01 in	0.2 μ m	Mitutoyo CMM	ASME B89.1.6	F1, F2	F, O
Dimensional	Plain Ring Gages (Class Z and ZZ)	2 mm to 300 mm	5.1 μ m	Mitutoyo CMM	ASME B89.1.6	F1, F2	F, O
Dimensional	Plain Ring Gages (Class Z and ZZ)	0.04 in to 12.01 in	0.2 μ m	Mitutoyo CMM	ASME B89.1.6	F1, F2	F, O
Dimensional	Bore Gages	5 mm to 300 mm	4.6 μ m	Block Gages 0 Mitutoyo and Accessories	ASME B89.1.10M / JIS B-7503	F1, F2	F, O
Dimensional	Film Thickness Gage	25 μ m to 1 550 μ m	1. μ m	Micrometer Mitutoyo	ASTM D7091-13	F1, F2	F, O
Mass, Force and Weighing Devices	Analitical Balance	1 mg to 2 000 g (Res.= 0.000 01 g)	0.12 mg	Weight Set E2	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Precision Balance	4 mg to 200 g (Res.= 1 mg)	1.2 mg	Weight Set F1	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Precision Balance	1 g to 17 000 g (Res.= 1 mg)	1.3 x 10 ⁻³ g	Weight Set F1	OIML R-076	F1, F2	F, O



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Mass, Force and Weighing Devices	Precision Balance	1 g to 30 000 g (Res.= 0.001 g)	2.1×10^{-3} g	Weight Set F1/F2	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Precision Balance	1 mg to 12 000 g (Res.= 1 mg)	1.3×10^{-3} g	Weight Set F1	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Precision Balance	1 mg to 20 000 g (Res.= 1 mg)	0.3 g	Weight Set F1/F2	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Scales	1 kg to 100 kg (Res.= 100 g)	5.6 g	Weight Set M1	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Scales	1 kg to 1 000 kg (Res.= 0.1 kg)	130 g	Weight Set M1	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Scales	1 kg to 10 000 kg (Res.= 0.02 kg)	1.2 kg	Weight Set M1	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Scales	20 kg to 40 kg (Res.= 0.1 kg)	11 g	Weight Set M1	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Scales	40 kg to 100 kg (Res.= 0.2 kg)	23 g	Weight Set M1	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Scales	100 kg to 200 kg (Res.= 0.2 kg)	55 g	Weight Set M1	OIML R-076	F1, F2	F, O



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Mass, Force and Weighing Devices	Scales	200 kg to 400 kg (Res.= 0.2 kg)	100 g	Weight Set M1	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Scales	400 kg to 500 kg (Res.= 0.5 kg)	210 g	Weight Set M1	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Scales	500 kg to 1 000 kg (Res.= 0.5 kg)	130 g	Weight Set M1	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Scales	1 000 kg to 1 500 kg (Res.= 0.5 kg)	130 g	Weight Set M1	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Scales	1 500 kg to 2 000 kg (Res.= 0.5 kg)	140 g	Weight Set M1	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Scales	2 000 kg to 2 500 kg (Res.= 0.5 kg)	200 g	Weight Set M1	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Scales	2 500 kg to 4 000 kg (Res.= 1 kg)	210 g	Weight Set M1	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Scales	4 000 kg to 5 000 kg (Res.= 1 kg)	230 g	Weight Set M1	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Scales	5 000 kg to 10 000 kg (Res.= 1 kg)	1.2 kg	Weight Set M3	OIML R-076	F1, F2	F, O



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Mass, Force and Weighing Devices	Scales	10 000 kg to 20 000 kg (Res.= 1 kg)	1.2 kg	Weight Set M3	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Scales	20 000 kg to 40 000 kg (Res.= 2 kg)	1.8 kg	Weight Set M3	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Scales	40 000 kg to 50 000 kg (Res.= 4.0 kg)	2.5 kg	Weight Set M3	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Scales	50 000 kg to 75 000 kg (Res.= 4.6 kg)	2.9 kg	Weight Set M3	OIML R-076	F1, F2	F, O
Mass, Force and Weighing Devices	Weights M1, M2, M3	1 g	0.16 mg	Weight set F1, Mettler Toledo Analytical Balance	OIML R111 ABBA Methodology	F1, F2	F
Mass, Force and Weighing Devices	Weights M1, M2, M3	2 g	0.2 mg	Weight set F1, Mettler Toledo Analytical Balance	OIML R111 ABBA Methodology	F1, F2	F
Mass, Force and Weighing Devices	Weights M1, M2, M3	5 g	0.23 mg	Weight set F1, Mettler Toledo Analytical Balance	OIML R111 ABBA Methodology	F1, F2	F
Mass, Force and Weighing Devices	Weights M1, M2, M3	10 g	0.28 mg	Weight set F1, Mettler Toledo Analytical Balance	OIML R111 ABBA Methodology	F1, F2	F
Mass, Force and Weighing Devices	Weights M1, M2, M3	20 g	0.39 mg	Weight set F1, Mettler Toledo Analytical Balance	OIML R111 ABBA Methodology	F1, F2	F



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Mass, Force and Weighing Devices	Weights M1, M2, M3	50 g	0.78 mg	Weight set F1, Mettler Toledo Analytical Balance	OIML R111 ABBA Methodology	F1, F2	F
Mass, Force and Weighing Devices	Weights M1, M2, M3	100 g	1.5 mg	Weight set F1, Mettler Toledo Analytical Balance	OIML R111 ABBA Methodology	F1, F2	F
Mass, Force and Weighing Devices	Weights M1, M2, M3	200 g	3.1 mg	Weight set F1, Mettler Toledo Analytical Balance	OIML R111 ABBA Methodology	F1, F2	F
Mass, Force and Weighing Devices	Weights M1, M2, M3	500 g	20 mg	Weight Set F1, and Analytical Balance	OIML R111 ABBA Methodology	F1, F2	F
Mass, Force and Weighing Devices	Weights M1, M2, M3	1 000 g	5.4 mg	Weight Set F1, and Analytical Balance	OIML R111 ABBA Methodology	F1, F2	F
Mass, Force and Weighing Devices	Weights M1, M2, M3	2 000 g	10 mg	Weight Set F1, and Analytical Balance	OIML R111 ABBA Methodology	F1, F2	F
Mass, Force and Weighing Devices	Weights M1, M2, M3	5 000 g	27 mg	Weight Set F1, and Analytical Balance	OIML R111 ABBA Methodology	F1, F2	F
Mass, Force and Weighing Devices	Weights M1, M2, M3	10 000 g	54 mg	Weight Set F1, and Analytical Balance	OIML R111 ABBA Methodology	F1, F2	F
Mass, Force and Weighing Devices	Weights M1, M2, M3	20 000 g	100 mg	Weight Set F2, Radwag Analytical Balance	OIML R111 ABBA Methodology	F1, F2	F



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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 Weighing Devices	Weight F2	10 kg	17 mg	Weight Set F1, AND Analytical Balance	OIML R111 ABBA Methodology	F1, F2	F
Mass, Force and Weighing Devices	Force Measurement Instruments (Tension and Compression)	98.06 N to 960.6 N	0.95 % of reading	Type S Load Cell PT400 220 lbs	ISO-7500-1	F1, F2	F, O
Mass, Force and Weighing Devices	Force Measurement Instruments (Tension and Compression)	196.13 N to 3 336 N	0.95 % of reading	Type S Load Cell Pt 400, 750 lbs	ISO-7500-1	F1, F2	F, O
Mass, Force and Weighing Devices	Force Measurement Instrument (Tension and Compression)	3 336 N to 22 241 N	0.95 % of reading	Type S Load Cell Poise DSX-25, 5000 lbs	ISO-7500-1	F1, F2	F,O
Mass, Force and Weighing Devices	Force Measurement Instrument (Tension and Compression)	22 241 N to 150 000 N	0.95 % of reading	Type S Load Cell Poise DSX-25, 20 000 lbs	ISO-7500-1	F1, F2	F,O
Mass, Force and Weighing Devices	Force Measurement Instruments (Tension and Compression)	0.49 N to 98.06 N	0.78 % of reading	Class F1 Weight	NMX-CH-376- IMNC	F1, F2	F, O
Mass, Force and Weighing Devices	Force Measurement Instruments (Tension and Compression)	98.06 N to 980.665 N	1.1 % of reading	Class M1 Weight	NMX-CH-376- IMNC	F1, F2	F, O



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Mass, Force and Weighing Devices	Force Measurement Instruments (Tension and Compression)	196.13 N to 3 336 N	1.1 % of reading	Load Cell PT400 750 lbs	NMX-CH-376- IMNC	F1, F2	F, O
Electrical	Equipment to Measure Resistance	1 m Ω to 11 Ω	0.88 % of reading	Fluke 744/754 ZX98DCResistor	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure Resistance	11 Ω to 110 Ω	0.17 % of reading	Fluke 744/754 ZX98DCResistor	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure Resistance	110 Ω to 1.1 k Ω	0.17 % of reading	Fluke 744/754 ZX98DCResistor	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure Resistance	1.1 k Ω to 11 k Ω	0.33 % of reading	Fluke 744/754 ZX98DCResistor	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure Resistance	0.5 Ω to 20 Ω	0.018 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458A 8 ½ Digits RBOX-406 LT Lutron Decade of resistance	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure Resistance	20 Ω to 200 Ω	0.023 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458A 8 ½ Digits RBOX-406 LT Lutron Decade of resistance	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure Resistance	200 Ω to 2 k Ω	0.023 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458A 8 ½ Digits RBOX-406 LT Lutron Decade of resistance	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure Resistance	2 k Ω to 20 k Ω	0.017 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458A 8 ½ Digits RBOX-406 LT Lutron Decade of resistance	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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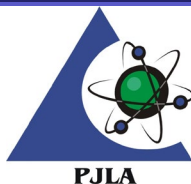
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Electrical	Equipment to Measure Resistance	20 k Ω to 200 k Ω	0.023 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458A 8 ½ Digits RBOX-406 LT Lutron Decade of resistance	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure Resistance	200 k Ω to 2 000 k Ω	0.023 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458A 8 ½ Digits RBOX-406 LT Lutron Decade of resistance	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure Resistance	2 000 k Ω to 20 M Ω	0.044 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458A 8 ½ Digits RBOX-406 LT Lutron Decade of resistance	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output Resistance	0.5 Ω to 20 Ω	0.017 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A HP 3458A 8 ½ Digits	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Output Resistance	20 Ω to 200 Ω	0.017 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458A 8 ½ Digits	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output Resistance	200 Ω to 2 k Ω	0.017 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458A 8 ½ Digits	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output Resistance	2 k Ω to 20 k Ω	0.017 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458A 8 ½ Digits	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output Resistance	20 k Ω to 200 k Ω	0.017 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458A 8 ½ Digits	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output Resistance	200 k Ω to 2 000 k Ω	0.017 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458A 8 ½ Digits	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Output Resistance	2 000 k Ω to 40 M Ω	0.019 % of reading	Bench Multimeter HP 3458A 8 ½ Digits	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type B	-600°C to 1 820 °C	0.52 °C	Fluke 754/ Fluke 744 Electrical Simulation of Thermocouple Output	ASTM E220	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type C	0 °C to 2 316 °C	0.97 °C	Fluke 754/ Fluke 744 Electrical Simulation of Thermocouple Output	ASTM E220	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	250 °C to 900 °C	0.26 °C	Fluke 754/ Fluke 744 Electrical Simulation of Thermocouple Output	ASTM E220	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-210 °C to 1 200 °C	0.28 °C	Fluke 754/ Fluke 744 Electrical Simulation of Thermocouple Output	ASTM E220	F1, F2	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	100 °C to 1 200 °C	0.33 °C	Fluke 754/ Fluke 744 Electrical Simulation of Thermocouple Output	ASTM E220	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-270 °C to 1 372 °C	0.4 °C	Fluke 754/ Fluke 744 Electrical Simulation of Thermocouple Output	ASTM E220	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type L	-200 °C to 900 °C	0.32 °C	Fluke 754/ Fluke 744 Electrical Simulation of Thermocouple Output	ASTM E220	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	200 °C to 1 300 °C	0.33 °C	Fluke 754/ Fluke 744 Electrical Simulation of Thermocouple Output	ASTM E220	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	200 °C to 1 767 °C	0.66 °C	Fluke 754/ Fluke 744 Electrical Simulation of Thermocouple Output	ASTM E220	F1, F2	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	-20 °C to 1 767 °C	0.57 °C	Fluke 754/ Fluke 744 Electrical Simulation of Thermocouple Output	ASTM E220	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-250 °C to 400 °C	0.21 °C	Fluke 754/ Fluke 744 Electrical Simulation of Thermocouple Output	ASTM E220	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type U	-200 °C to 600 °C	0.33 °C	Fluke 754/ Fluke 744 Electrical Simulation of Thermocouple Output	ASTM E220	F1, F2	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 100 Ω	-200 °C to 800 °C	0.28 °C	Fluke 754/ Fluke 744 Electrical Simulation of RTD Output	ASTM E644-11	F1, F2	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 200 Ω	-200 °C to 600 °C	0.19 °C	Fluke 754/ Fluke 744 Electrical Simulation of RTD Output	ASTM E644-11	F1, F2	F, O



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Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 500 Ω	-200 °C to 630 °C	0.15 °C	Fluke 754/ Fluke 744 Electrical Simulation of RTD Output	ASTM E644-11	F1, F2	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 1 000 Ω	-200 °C to 630 °C	0.14 °C	Fluke 754/ Fluke 744 Electrical Simulation of RTD Output	ASTM E644-11	F1, F2	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 3916, 100 Ω	-200 °C to 630 °C	0.16 °C	Fluke 754/ Fluke 744 Electrical Simulation of RTD Output	ASTM E644-11	F1, F2	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 3926, 100 Ω	-200 °C to 630 °C	0.18 °C	Fluke 754/ Fluke 744 Electrical Simulation of RTD Output	ASTM E644-11	F1, F2	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Cu 427, 10 Ω	-100 °C to 260 °C	0.36 °C	Fluke 754/ Fluke 744 Electrical Simulation of RTD Output	ASTM E644-11	F1, F2	F, O



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Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Ni 672, 120 Ω	-80 °C to 260 °C	0.16 °C	Fluke 754/ Fluke 744 Electrical Simulation of RTD Output	ASTM E644-11	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	1.1 mV to 20 mV	0.14 % of reading	Fluke 744/754 Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits DC Power Supply Rxn-3030D DC Power Supply ODP3122	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	20 mV to 200 mV	0.15 % of reading	Fluke 744/754 Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits DC Power Supply Rxn-3030D DC Power Supply ODP3122	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure DC Voltage	200 mV to 2 V	0.023 % of reading	Fluke 744/754 Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits DC Power Supply Rxn-3030D DC Power Supply ODP3122	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	2 V to 20 V	0.028% of reading	Fluke 744/754 Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits DC Power Supply Rxn-3030D DC Power Supply ODP3122	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure DC Voltage	20 V to 200 V	0.035 % of reading	Fluke 744/754 Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	200 V to 1 000 V	0.033 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	1 V to 1 000 V	1.1 % of reading	Fluke 376 AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Generate DC Voltage	1.1 mV to 20 mV	0.017 % of reading	Fluke 744/754 Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Generate DC Voltage	20 mV to 200 mV	0.017 % of reading	Fluke 744/754 Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Generate DC Voltage	200 mV to 2 V	0.017 % of reading	Fluke 744/754 Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Generate DC Voltage	2 V to 20 V	0.017 % of reading	Fluke 744/754 Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Generate DC Voltage	20 V to 200 V	0.017 % of reading	Fluke 744/754 Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Generate DC Voltage	200 V to 1 000 V	0.017 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 Hz to 40 Hz)	1 mV to 1.1 V	3.5 % of reading	Fluke 744/754	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 500 Hz)	1 mV to 1.1 V	0.88 % of reading	Fluke 744/754	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 500 Hz to 1 kHz)	1 mV to 1.1 V	3.5 % of reading	Fluke 744/754	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 5 kHz)	1 mV to 1.1 V	17 % of reading	Fluke 744/754	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 Hz to 40 Hz)	1.1 V to 11 V	3.5 % of reading	Fluke 744/754	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Servicios Industriales y de Apoyo de la Laguna, S.A. de C.V.

Calzada Hacienda el Rosario # 4 Local 8, Residencial Hacienda el Rosario

Torreón, Coahuila, México. C.P. 27019

Contact Name: Carlos Armando Herrera. Phone: 871-204-4033

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

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Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 500 Hz)	1.1 V to 11 V	0.88 % of reading	Fluke 744/754	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 500 Hz to 1 kHz)	1.1 V to 11 V	3.5 % of reading	Fluke 744/754	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 5 kHz)	1.1 V to 11 V	17 % of reading	Fluke 744/754	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 Hz to 40 Hz)	11 V to 110 V	3.5 % of reading	Fluke 744/754 AC Transformer TDGC-2KVA Voltage	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 500 Hz)	11 V to 110 V	0.95 % of reading	Fluke 744/754 AC Transformer TDGC-2KVA Voltage	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 500 Hz to 1kHz)	11 V to 110 V	3.5 % of reading	Fluke 744/754 AC Transformer TDGC-2KVA Voltage	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 5 kHz)	11 V to 110 V	17 % of reading	Fluke 744/754 AC Transformer TDGC-2KVA Voltage	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure AC Voltage (@ 20 Hz to 45 Hz)	1.1 mV to 200 mV	0.3 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 200 Hz)	1.1 mV to 200 mV	0.3 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 200 Hz to 20 kHz)	1.1 mV to 200 mV	0.3 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	1.1 mV to 200 mV	0.35 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	1.1 mV to 200 mV	0.69 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 300 kHz)	1.1 mV to 200 mV	1.3 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure AC Voltage (@ 20 Hz to 45 Hz)	200 mV to 2 V	0.03 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 200 Hz)	200 mV to 2 V	0.03 % of reading	Bench Multimeter Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 200 Hz to 20 kHz)	200 mV to 2 V	0.03 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	200 mV to 2 V	0.13 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	200 mV to 2 V	0.13 % of reading	Bench Multimeter Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 300 kHz)	200 mV to 2 V	1.6 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure AC Voltage (@ 20 Hz to 45 Hz)	2 V to 11 V	0.024 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 200 Hz)	2 V to 11 V	0.024 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 200 Hz to 20 kHz)	2 V to 11 V	0.041 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	2 V to 11 V	0.055 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	2 V to 11 V	0.13 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 300 kHz)	2 V to 11 V	1.3 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure AC Voltage (@ 20 Hz to 40 Hz)	11 V to 110 V	0.078 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 500Hz)	11 V to 110 V	0.078 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 500 Hz to 1kHz)	11 V to 110 V	0.78% of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 5 kHz)	11 V to 110 V	0.15% of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 5 kHz to 100 kHz)	11 V to 110 V	0.23% of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 300 kHz)	11 V to 110 V	0.65% of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure AC Voltage (@ 20 Hz to 40 Hz)	110 V to 300 V	0.042 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 500 Hz)	110 V to 300 V	0.042 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 500 Hz to 1 kHz)	110 V to 300 V	0.042 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 5 kHz)	110 V to 300 V	0.062 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 5 kHz to 100 kHz)	110 V to 300 V	0.091 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 300 kHz)	110 V to 300 V	0.24 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure AC Voltage (@ 20 Hz to 500 Hz)	1 V to 1 000 V	0.17 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits AC/DC Power Supply 011-0/1000	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Generate AC Voltage (@ 1 Hz to 40 Hz)	10 mV to 2 V	0.017 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Generate AC Voltage (@ 40 Hz to 1 kHz)	10 mV to 2 V	0.017 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Generate AC Voltage (@ 1 kHz to 20 kHz)	10 mV to 2 V	0.017 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Generate	10 mV to 2V	0.13 % of reading	Fluke 744/754	Euramet cg-15//	F1, F2	F, O



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	AC Voltage (@ 20 kHz to 50 kHz)			Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits\	NOM 127-SCFI PC-7.2-039		
Electrical	Equipment to Generate AC Voltage (@ 50 kHz to 100 kHz)	10 mV to 2V	0.12 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Generate AC Voltage (@ 20 Hz to 45 Hz)	2 V to 200 V	0.045 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Generate AC Voltage (@ 45 Hz to 200 Hz)	2 V to 200 V	0.045 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Generate AC Voltage (@ 200 Hz to 20 kHz)	2 V to 200 V	0.073 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Generate AC Voltage (@ 20 kHz to 50 kHz)	2 V to 200 V	0.12 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Generate AC Voltage (@ 50 kHz to 100 kHz)	2 V to 200 V	0.13 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 20 Hz to 45 Hz)	200 V to 1 000 V	0.085 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15/ NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Calzada Hacienda el Rosario # 4 Local 8, Residencial Hacienda el Rosario

Torreón, Coahuila, México. C.P. 27019

Contact Name: Carlos Armando Herrera. Phone: 871-204-4033

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Electrical	Equipment to Output AC Voltage (@ 45 Hz to 200 Hz)	200 V to 1 000 V	0.079 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 20 Hz to 20 kHz)	200 V to 1 000 V	0.085 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	200 V to 1 000 V	0.21 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 100 kHz)	200 V to 1 000 V	0.52 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure DC Current	0.5 mA to 200 mA	0.09 1 % of reading	Fluke 744/754 Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits DC Power Supply RXN-3030D DC Power Supply ODP3122	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure DC Current	200 mA to 2 000 mA	0.097 % of reading	Fluke 744/754 Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits DC Power Supply RXN-3030D DC Power Supply ODP3122	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure DC Current	2 000 mA to 20 000 mA	0.16 % of reading	Fluke 744/754 Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits DC Power Supply RXN-3030D DC Power Supply ODP3122	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure DC Current	1 A to 999.9 A	1.3 % of reading	Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376 DC Power Supply RXN-3030D DC Power Supply ODP3122 Meatest Current Coil 50x	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Output DC Current	0.5 mA to 200 mA	0.018 % of reading	Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output DC Current	200 mA to 2 000 mA	0.021 % of reading	Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output DC Current	2 000 mA to 20 000 mA	0.017 % of reading	Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output DC Current	1 A to 999.9 A	0.87 % of reading	Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure AC Current (@ 20 Hz to 5 kHz)	0.5 mA to 200 mA	0.15 % of reading	Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376 Transformador AC Voltaje TDGC-2KVA	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 5 kHz)	200 mA to 2 000 mA	0.3 % of reading	Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376, Transformador AC Voltaje TDGC-2KVA Meatest Current Coil 50x	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure AC Current (@ 20 Hz to 5 kHz)	2 000 mA to 20 000 mA	0.4 % of reading	Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376 Transformador AC Voltaje TDGC-2KVA Meatest Current Coil 50x	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 5 kHz)	20 000 mA to 400 A	4.2 % of the reading	Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376 Transformador AC Voltaje TDGC-2KVA Meatest Current Coil 50x	Euramet cg-15 NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	0.5 mA to 200 mA	0.15 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376 Transformador AC Voltaje TDGC-2KVA Meatest Current Coil 50x	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	200 mA to 2 000 mA	0.3 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376 Transformador AC Voltaje TDGC-2KVA Meatest Current Coil 50x	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	2 000 mA to 20 000 mA	0.38 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376 Transformador AC Voltaje TDGC-2KVA Meatest Current Coil 50x	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	20 000 mA to 400 A	4.2% of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376 Transformador AC Voltaje TDGC-2KVA Meatest Current Coil 50x	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 5 kHz)	1 A to 999.9 A	2.2 % of reading	Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376 Transformador AC	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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				Voltaje TDGC-2KVA Meatest Current Coil 50x			
Electrical	Equipment to Output AC Current (@ 20 Hz to 5 kHz)	0.5 mA to 200 mA	0.1 % of reading	Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 20 Hz to 5 kHz)	200 mA to 2 000 mA	0.17 % of reading	Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 20 Hz to 5 kHz)	2000 mA to 20000 mA	0.34 % of reading	Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Output AC Current (@ 20 Hz to 5 kHz)	20 A to 400 A	2.4 % of reading	Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 5 Hz to 10 kHz)	0.5 mA to 200 mA	0.11 % of reading	Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 5 Hz to 10 kHz)	200 mA to 2 000 mA	0.21 % of reading	Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 5 Hz to 10 kHz)	2000 mA to 20 000 mA	0.41 % of reading	Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O



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Electrical	Equipment to Output AC Current (@ 5 Hz to 10 kHz)	20 A to 400 A	2.5 % of reading	Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 20 Hz to 5 kHz)	1 A to 999 A	2.7 % of reading	Craftsman 82334 Bench Multimeter Fluke 8842A, Keysight 34460A, Keysight 34465A, HP 3458 A 8 ½ Digits Fluke 376	Euramet cg-15// NOM 127-SCFI PC-7.2-039	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	10 V to 40 kV	2 % of reading	Fluke 80K40 Bench Multimeter Fluke 8842A, Keysight 34460A, HP 3458 A 8 ½ Digits	0EL- 010 CEM	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 20 Hz to 40 Hz)	750 V to 40 kV	5 % of reading	Fluke 80K40 Bench Multimeter Fluke 8842A, Keysight 34460A, HP 3458 A 8 ½ Digits	0EL- 010 CEM	F1, F2	F, O



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Electrical	Equipment to Output AC Voltage (@ 40 Hz to 500 Hz)	750 V to 40 kV	5 % of reading	Fluke 80K40 Bench Multimeter Fluke 8842A, Keysight 34460A, HP 3458 A 8 ½ Digits	0EL- 010 CEM	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 500 Hz to 1 kHz)	750 V to 40 kV	5 % of reading	Fluke 80K40 Bench Multimeter Fluke 8842A, Keysight 34460A, HP 3458 A 8 ½ Digits	0EL- 010 CEM	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 5 kHz)	750 V to 40 kV	5 % of reading	Fluke 80K40 Bench Multimeter Fluke 8842A, Keysight 34460A, HP 3458 A 8 ½ Digits	0EL- 010 CEM	F1, F2	F, O
Electrical	Equipment to Measure and Generate Capacitance	1 nF	0.5 % of reading + 0.005 nF	Keysight Multimeter 34460 A EDFM Capacitance Decade	EL-002 CEM Euramet_cg-15	F1, F2	F, O
Electrical	Equipment to Measure and Generate Capacitance	10 nF	0.4 % of reading + 0.001 nF	Keysight Multimeter 34460 A EDFM Capacitance Decade	EL-002 CEM Euramet_cg-15	F1, F2	F, O
Electrical	Equipment to Measure and Generate Capacitance	100 nF	0.4 % of reading + 0.1 nF	Keysight Multimeter 34460 A EDFM Capacitance Decade	EL-002 CEM Euramet_cg-15	F1, F2	F, O



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Electrical	Equipment to Measure and Generate Capacitance	1 μ F	0.4 % of reading + 0.001 μ F	Keysight Multimeter 34460 A EDFM Capacitance Decade	EL-002 CEM Euramet_cg-15	F1, F2	F, O
Electrical	Equipment to Measure and Generate Capacitance	10 μ F	0.4 % of reading + 0.01 μ F	Keysight Multimeter 34460 A EDFM Capacitance Decade	EL-002 CEM Euramet_cg-15	F1, F2	F, O
Electrical	Equipment to Measure and Generate Capacitance	100 μ F	0.4 % of reading + 0.1 μ F	Keysight Multimeter 34460 A EDFM Capacitance Decade	EL-002 CEM Euramet_cg-15	F1, F2	F, O
Electrical	Equipment to Measure Inductance	1 μ H to 999.999 mH	0.04 % of reading a 1 kHz	Decade of Inductance LS 400L	EL-002 CEM	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Signals	500 mV to 2 000 V	0.48 % of reading	Oscilloscope Siglent	Euramet CG:15/ NOM-127-SCFI	F1, F2	F, O
Mechanical	Pressure Gages	-1 psi to 1 psi	1.13 x 10 ⁻⁴ psi	Fluke 718-1G	ASME B40.100 / DKD-R 6-1 NOM-013-SCFI/ OIML R109	F1, F2	F, O
Mechanical	Pressure Gages	3 psi to 30 psi	0.01 psi	Druck Model DPI 603/ Fluke 718 300G	ASME B40.100 / DKD-R 6-1 NOM-013-SCFI/ OIML R109	F1, F2	F, O



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Mechanical	Pressure Gages	30 psi to 300 psi	0.01 psi	Druck Model DPI 603/ Fluke 718 300G	ASME B40.100 / DKD-R 6-1 NOM-013-SCFI/ OIML R109	F1, F2	F, O
Mechanical	Pressure Gages	300 psi to 3 000 psi	0.34 psi	Fluke Pressure Module Model 700P29	ASME B40.100 / DKD-R 6-1 NOM-013-SCFI/ OIML R109	F1, F2	F, O
Mechanical	Pressure Gages	3 000 psi to 10 000 psi	0.95 psi	Digital Manometer Fluke 700G31	ASME B40.100 / DKD-R 6-1 NOM-013-SCFI/ OIML R109	F1, F2	F, O
Mechanical	Vacuum Meters	-10 psi to 3 psi	0.06 psi	Druck Model DPI 603/ Fluke 718 300G	OIML R-101	F1, F2	F, O
Mechanical	Differential Pressure	0.357 inH ₂ O to 150 inH ₂ O	0.02 H ₂ O	Fluke 754/ Fluke 744/ Druck Model DPI603/ Fluke 718 300G	ASME B40.100 / DKD-R 6-1 NOM-013-SCFI/ OIML R109	F1, F2	F, O
Mechanical	Differential Pressure	88.92 Pa to 37 363.34 Pa	5 Pa	Fluke 754/ Fluke 744/ Druck Model DPI603/ Fluke 718 300G	ASME B40.100 / DKD-R 6-1 NOM-013-SCFI/ OIML R109	F1, F2	F, O
Mechanical	Pressure Transmitter	3 psi to 30 psi	0.01 psi	Fluke 754/ Fluke 744/ Druck Model DPI603/ Fluke 718 300G	ASME B40.100 / DKD-R 6-1 NOM-013-SCFI/ OIML R109	F1, F2	F, O



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Servicios Industriales y de Apoyo de la Laguna, S.A. de C.V.

Calzada Hacienda el Rosario # 4 Local 8, Residencial Hacienda el Rosario

Torreón, Coahuila, México. C.P. 27019

Contact Name: Carlos Armando Herrera. Phone: 871-204-4033

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	Pressure Transmitter	30 psi to 300 psi	0.01 psi	Fluke 754/ Fluke 744/ Druck Model DPI603/ Fluke 718 300G	ASME B40.100 / DKD-R 6-1 NOM-013-SCFI/ OIML R109	F1, F2	F, O
Mechanical	Pressure Transmitter	300 psi to 3 000 psi	0.34 psi	Fluke Pressure Module Model 700P29	ASME B40.100 / DKD-R 6-1 NOM-013-SCFI/ OIML R109	F1, F2	F, O
Mechanical	Pressure Transmitter	3 000 psi to 10 000 psi	0.95 psi	Digital Manometer Fluke Model 700G31	ASME B40.100 / DKD-R 6-1 NOM-013-SCFI/ OIML R109	F1, F2	F, O
Mechanical	Torque Tools: (Dial Wrench, Click Wrench, Digital Wrench & Torque Screwdriver)	33.9 N•m to 339 N•m	0.98 % of reading	Mountz Load Cell LTT 250F	ISO 6789-1 / ISO 6789-2	F1, F2	F, O
Mechanical	Torque Tools: (Dial Wrench, Click Wrench, Digital Wrench & Torque Screwdriver)	2.82 N•m to 28.24 N•m	0.98 % of reading	Mountz Display LTT 250 / Load Cell BMX 250i	ISO 6789-1 / ISO 6789-2	F1, F2	F, O
Mechanical	Torque Tools: (Dial Wrench, Click Wrench, Digital Wrench & Torque Screwdriver)	0.282 N•m to 2.825 N•m	0.98 % of reading	Mountz Display LTT 250 / Load Cell BMX 25i	ISO 6789-1 / ISO 6789-2	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness HRB	35 HRB to 40 HRB	0.65 HRB	Rockwell Hardness Test Blocks	ASTM E18	F1, F2	F, O



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Mechanical	Indirect Verification of Rockwell Hardness HRB	40 HRB to 60 HRB	0.46 HRB	Rockwell Hardness Test Blocks	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness HRB	60 HRB to 100 HRB	0.64 HRB	Rockwell Hardness Test Blocks	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness HRC	20 HRC to 25 HRC	0.19 HRC	Rockwell Hardness Test Blocks	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness HRC	25 HRC to 40 HRC	0.2 HRC	Rockwell Hardness Test Blocks	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness HRC	40 HRC to 68 HRC	0.17 HRC	Rockwell Hardness Test Blocks	ASTM E18	F1, F2	F, O
Mechanical	Kinematic Viscosity	20 mm ² to 1 400 mm ²	2.5 % of reading	Chronometer Viscosity oil	ASTM D4212	F1, F2	F, O
Mechanical	Kinematic Viscosity	2 mm ²	2.5 % of reading	Chronometer Viscosity oil	ASTM D4212	F1, F2	F, O
Mechanical	Kinematic Viscosity	3 mm ²	2.5 % of reading	Chronometer Viscosity oil	ASTM D4212	F1, F2	F, O
Mechanical	Kinematic Viscosity	4 mm ²	2.5 % of reading	Chronometer Viscosity oil	ASTM D4212	F1, F2	F, O
Mechanical	Kinematic Viscosity	5 mm ²	2.5 % of reading	Chronometer Viscosity oil	ASTM D4212	F1, F2	F, O



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Thermodynamic	Thermo-Hygrometer (Temperature)	0 °C to 45 °C	0.19 °C	Thermo-Hygrometer Chamber CEM MOD:TH-003	ASTM E 104-02 Euramet_cg-20	F1, F2	F, O
Thermodynamic	Hygrometer	10 % RH to 90 % RH	1 % RH	Thermo-Hygrometer Chamber CEM MOD:TH-003	ASTM E 104-02 Euramet_cg-20	F1, F2	F, O
Thermodynamic	Humidity Tester	10 % RH to 90 % RH	1 % RH	Thermo-Hygrometer Chamber CEM MOD:TH-003	ASTM E 104-02 Euramet_cg-20	F1, F2	F, O
Thermodynamic	Humidity Chamber	10 % RH to 90 % RH	1 % RH	Thermo-Hygrometer Chamber CEM MOD:TH-003	ASTM E 104-02 Euramet_cg-20	F1, F2	F, O
Thermodynamic	Temperature-Generation Ovens Furnaces, Muffles and Freezers, Chambers, Hot Rooms, Cold Rooms and Thermocouple Type K	-50 °C to 1 200 °C	1.7 °C	Comparison Fluke 744 with RTD (pt 100)	Euramet_cg -08	F1, F2	F, O
Thermodynamic	Infrared Thermometer	30 °C to 550 °C	0.7 °C	Fluke 566 Black Body	CENAM Technical Guide/ ASTM E1256	F1, F2	F, O
Thermodynamic	Infrared Thermometer	550 °C to 1 200 °C	4.7 °C	KAEMEASU Infrared Thermometer Black Body	CENAM Technical Guide/ ASTM E1256	F1, F2	F, O



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Thermodynamic	Bimetallic Thermometer	-10 °C to 500 °C	0.47 °C	Comparison Fluke 744 with RTD (pt 100), Dry Well	CENAM Technical Guide/ ASTM E-220 / Euramet cg-08	F1, F2	F, O
Thermodynamic	Temperature Measurement Thermocouple Type K and J	-10 °C to 500 °C	0.47 °C	Comparison Fluke 744 with RTD (pt 100), Dry Well	CENAM Technical Guide/ ASTM E-220 / Euramet cg-08	F1, F2	F, O
Time and Frequency	Stopwatch and Timer	1 s to 3600 s	0.049 % of reading	Chronometer	CENAM Technical Guide	F1, F2	F, O
Time and Frequency	Stopwatch and Timer	3600 s to 10 800 s	0.028 % of reading	Chronometer	CENAM Technical Guide	F1, F2	F, O
Time and Frequency	Stopwatch and Timer	10 800 s to 34 260 s	0.016 % of reading	Chronometer	CENAM Technical Guide	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	20 Hz to 45 Hz	0.19 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, HP 3458 A 8 ½ Digits	Euramet cg-15 NOM-127-SCFI	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	45 Hz to 20 kHz	0.047 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, HP 3458 A 8 ½ Digits	Euramet cg-15 NOM-127-SCFI	F1, F2	F, O



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Time and Frequency	Equipment to Measure Frequency	20 kHz to 50 kHz	0.17 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, HP 3458 A 8 ½ Digits	Euramet cg-15 NOM-127-SCFI	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	20 Hz to 45 Hz	0.017 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, HP 3458 A 8 ½ Digits Arbitrary Waveform Generator	Euramet cg-15 NOM-127-SCFI	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	45 Hz to 20 kHz	0.017 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, HP 3458 A 8 ½ Digits Arbitrary Waveform Generator	Euramet cg-15 NOM-127-SCFI	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	20 kHz to 50 kHz	0.017 % of reading	Fluke 744/754 Bench Multimeter Fluke 8842A, Keysight 34460A, HP 3458 A 8 ½ Digits Arbitrary Waveform Generator	Euramet cg-15 NOM-127-SCFI	F1, F2	F, O



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Time and Frequency	Equipment to Measure Frequency	50 kHz to 300 kHz	0.017 % of reading	Arbitrary Waveform Generator Bench Multimeter Fluke 8842A, Keysight 34460A, HP 3458 A 8 ½ Digits	Euramet cg-15 NOM-127-SCFI	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	300 kHz to 10 MHz	0.017 % of reading	Arbitrary Waveform Generator Bench Multimeter, Keysight 34460A, HP 3458 A 8 ½ Digits	Euramet cg-15 NOM-127-SCFI	F1, F2	F, O
Time and Frequency	Equipment to Output Frequency	1 Hz to 40 kHz	0.017 % of reading	Arbitrary Waveform Generator Bench Multimeter, HP 3458 A 8 ½ Digits	Euramet cg-15 NOM-127-SCFI	F1, F2	F, O
Time and Frequency	Equipment to Output Frequency	40 kHz to 10 MHz	0.017 % of reading	Arbitrary Waveform Generator Bench Multimeter, HP 3458 A 8 ½ Digits	Euramet cg-15 NOM-127-SCFI	F1, F2	F, O
Time and Frequency	Equipment to Measure Square wave signal (oscilloscope)	1 μ Hz to 60 MHz	2.1 % of the reading	Arbitrary Waveform Generator	CENAM Technical Guide	F1, F2	F, O
Time and Frequency	Equipment to Measure Sine wave signal (oscilloscope)	1 μ Hz to 200 MHz	2.1 % of the reading	Arbitrary Waveform Generator	CENAM Technical Guide	F1, F2	F, O



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Time and Frequency	Equipment to Measure Base Time Response Sine wave signal (oscilloscope)	4.5 nS to 250 nS	1.2 % of the reading	Arbitrary Waveform Generator, Hp Agilent 53132A	CENAM Technical Guide	F1, F2	F, O
Chemical	pH Meter	4 pH	0.4 pH	pH Buffer Solution	CENAM Technical Guide	F1, F2	F, O
Chemical	pH Meter	7 pH	0.4 pH	pH Buffer Solution	CENAM Technical Guide	F1, F2	F, O
Chemical	pH Meter	10 pH	0.4 pH	pH Buffer Solution	CENAM Technical Guide	F1, F2	F, O
Optical	Luxometer	200 lux to 7 000 lux	32 lux	Lux meter Light box	CENAM Technical Guide	F1, F2	F

1. 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.
2. 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.



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

3. Location of activity:

Location

Location

Code

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

4. 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.

5. The term D represents diameter in inches or millimeters as appropriate to the uncertainty statement.

6. The term DL represents diagonal length in inches or millimeters as appropriate to the uncertainty statement.

Note that Diameter and Diagonal both use the same designation "D". This is not a problem unless a laboratory is accredited for both; however, the usage is common and should be retained when possible and modified in the few cases where a laboratory is accredited for both. In those cases, continue to use D for diameter and use DL for Diagonal Length. This note is intended for internal office use only and is to be removed during preparation of draft documents.

7. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.

8. 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.