



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Aldinger Company dba Holts Precision

*1123A Route 23, Suite 3, Wayne, NJ 07470
400 Chapel Road Unit 3A, South Windsor, CT 06074
171 Doty Circle, West Springfield, MA 01089
793 West Center Street, West Bridgewater, MA 02379*

*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:

***Chemical, Dimensional, Electrical, Mass, Force, and Weighing Devices,
Mechanical, and Thermodynamic
(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

Initial Accreditation Date: *Issue Date:* *Expiration Date:*
December 02, 2002 November 12, 2025 November 30, 2027

Accreditation No.: *Certificate No.:*
59114 L25-844

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.pjilabs.com*



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 793 West Center Street, West Bridgewater, MA 02379
 Contact Name: Rey Feliz Phone: 602-684-0313

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

400 Chapel Road Unit 3A, South Windsor, CT 06074

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	Gage Blocks	0.01 in to 20 in	1.5 $\mu\text{in/in}$ + 6.5 μin	Federal Comparator Master Gage Blocks	HCP-030 ASME-B89.1.9	F1, F2, F3	F
Dimensional	Ring Gages	0.04 in to 20 in	17 μin + 0.7 $\mu\text{in/in}$	P&W Lab Master Mastered with Master Gage Blocks and Master Ring Gage	HCP-017 ASME-B89.1.6	F1, F2, F3	F
Dimensional	Thread Ring Gages (Pitch Diameter)	M 1.6 x 0.35 to M 100 x 6	(340 + 63L) μin	Master Threaded Set Plug	HCP-093	F1, F3	F
Dimensional	Thread Ring Gages (Pitch Diameter)	0-80 to 4-10	(8.6 + 1.6 L) μm	Master Threaded Set Plug	HCP-093	F1, F3	F
Dimensional	Thread Ring Gages (Minor Diameter)	M 1.6 x 0.35 to M 100 x 6	(68 + 19 L) μin	Master Plain Class X Plug Gage	HCP-093	F1, F3	F
Dimensional	Thread Ring Gages (Minor Diameter)	0-80 to 4-10	(1.8 + 0.48L) μm	Master Plain Class X Plug Gage	HCP-093	F1, F3	F
Dimensional	Cylindrical Plug and Discs	0.254 mm to 304.8 mm	(0.79 + 0.04 L) μm	P W Super micrometer	HCP-014	F1, F3	F
Dimensional	Cylindrical Plug and Discs	0.01 in to 12 in	(31 + 1.6 L) μin	P W Super micrometer	HCP-014	F1, F3	F
Dimensional	Pin Gages	0.254 mm to 25.4 mm	1.1 μm	Twin Horizontal Class ZZ	HCP-014	F1, F3	F
Dimensional	Pin Gages	0.01 in to 1.0 in	43 μin	Twin Horizontal Class ZZ	HCP-014	F1, F3	F
Dimensional	Micrometer Standards	25.4 mm to 914.4 mm	(2.4 + 0.2 L) μm	Gage Blocks	HCP-024	F1, F3	F
Dimensional	Micrometer Standards	1 in to 36 in	(93 + 8.1 L) μin	Gage Blocks	HCP-024	F1, F3	F
Dimensional	Micrometers	1 mm to 1 016 mm	(1.2 + 0.2 L) μm	Gage Blocks	HCP-003	F1, F3	F, O
Dimensional	Micrometers	0.05 in to 40 in	(48 + 7.9 L) μin	Gage Blocks	HCP-003	F1, F3	F, O



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Dimensional	Calipers	1 mm to 2 032 mm	(13 + 0.3 L) μ m	Gage Blocks	HCP-001	F1, F3	F, O
Dimensional	Calipers	0.05 in to 80 in	(520 + 3.9 L) μ in	Gage Blocks	HCP-001	F1, F3	F, O
Dimensional	Indicators	Up to 50 mm (Res. 0.000 5 mm)	1.0 μ m	Digital Micrometer Head	HCP-002	F1, F3	F, O
Dimensional	Indicators	Up to 2 in (Res. 0.000 01 in)	40 μ in	Digital Micrometer Head	HCP-002	F1, F3	F, O
Dimensional	Thread Plug Gage (Pitch Diameter)	0-80 to 4-4	(96 + 1.3 L) μ in	Super Micrometer Mastered with Gage Blocks and Thread Wires	HCP-016	F1, F3	F
Dimensional	Thread Plug Gage (Pitch Diameter)	M 1.6 x 0.35 to M 100 x 6	(2.4 + 0.03 L) μ m	Super Micrometer Mastered with Gage Blocks and Thread Wires	HCP-016	F1, F3	F
Dimensional	Thread Plug Gage (Major Diameter)	0-80 to 4-4	(32 + 1.9 L) μ in	Super Micrometer Mastered with Gage Blocks	HCP-016	F1, F3	F
Dimensional	Thread Plug Gage (Major Diameter)	M 1.6 x 0.35 to M 100 x 6	(0.81 + 0.05 L) μ m	Super Micrometer Mastered with Gage Blocks	HCP-016	F1, F3	F
Dimensional	Surface Plates (Flatness)	254 mm to 3 048 mm (Diagonal)	(1.7 + 0.02 D) μ m	Planekator, Indicator	HCP-035	F1, F3	F, O
Dimensional	Surface Plates (Flatness)	10 in to 120 in (Diagonal)	(66 + 0.6 D) in	Planekator, Indicator	HCP-035	F1, F3	F, O
Dimensional	Surface Plates (Repeat Reading)	254 mm to 3 048 mm (Diagonal)	1.3 μ m	Repeat-o-Meter, Indicator	HCP-035	F1, F3	F, O
Dimensional	Surface Plates (Repeat Reading)	10in to 120 in (Diagonal)	51 μ in	Repeat-o-Meter, Indicator	HCP-035	F1, F3	F, O
Dimensional	Optical Comparators (Linear Axis)	0.05 in to 12 in	(150 + 23 L) μ in	Glass Masters	HCP-036	F1, F3	O



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Dimensional	Optical Comparators (Squareness of X axis to Y axis)	3 in	220 μ m	Glass Masters	HCP-036	F1, F3	O
Dimensional	Optical Comparators (Angularity)	Up to 90 °	0.01°	Glass Masters	HCP-036	F1, F3	O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	10X	450 μ m	Size Balls and Check Glass	HCP-036	F1, F3	O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	20X	450 μ m	Size Balls and Check Glass	HCP-036	F1, F3	O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	25X	450 μ m	Size Balls and Check Glass	HCP-036	F1, F3	O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	30X	450 μ m	Size Balls and Check Glass	HCP-036	F1, F3	O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	31.25X	450 μ m	Size Balls and Check Glass	HCP-036	F1, F3	O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	50X	450 μ m	Size Balls and Check Glass	HCP-036	F1, F3	O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	62.5X	450 μ m	Size Balls and Check Glass	HCP-036	F1, F3	O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	100X	450 μ m	Size Balls and Check Glass	HCP-036	F1, F3	O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	250X	450 μ m	Size Balls and Check Glass	HCP-036	F1, F3	O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	500X	450 μ m	Size Balls and Check Glass	HCP-036	F1, F3	O
Dimensional	Height Gage	Up to 40 in	(59 + 4.7L) μ m	Gage Blocks	HCP-056	F1, F3	F, O



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Dimensional	Coordinate Measuring Machine (X Axis)	Up to 24 in	(63 + 5.6L) μ m	Gage Blocks, Step Gage	HCP-085	F1, F3	F, O
Dimensional	Coordinate Measuring Machine (X Axis)	Up to 600 mm	(1.6 + 0.14L) μ m	Gage Blocks, Step Gage	HCP-085	F1, F3	F, O
Dimensional	Video Measurement Machine (X-Axis)	Up to 12 in	27 μ m/in + 75 μ m	Glass Scale	HCP-084	F1, F3	F, O
Dimensional	Video Measurement Machine (Y-Axis)	Up to 12 in	27 μ m/in + 75 μ m	Glass Scale	HCP-084	F1, F3	F, O
Dimensional	Video Measurement Machine (Z-Axis) (Angularity)	0 ° \angle to 360 ° \angle	0.003 ° \angle	Glass Scale	HCP-084	F1, F3	F, O
Dimensional	Profilometers	1 μ m to 1 000 μ m	4 μ m	Calibrated Surface Finish Patch	HCP-025	F1, F3	F, O
Dimensional	Thread Wires	0.004 8 in to 0.289 in	31 μ m	P&W Supermicrometer Mastered with Gage Blocks	HCP-033	F1, F3	F
Dimensional	Horizontal Measuring Machines	1 in to 100 in	1.6 μ m/in + 28 μ m	Renishaw XL-80 Laser	HCP-068	F1, F3	F, O
Mechanical	Equipment to Measure Torque	32 ozf•in to 320 ozf•in	0.94 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	20 lbf•in to 60 lbf•in	0.55 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	60 lbf•in to 200 lbf•in	0.68 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	16 lbf•ft to 500 lbf•ft	0.64 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	500 lbf•ft to 1 400 lbf•ft	1.3 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O



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Mechanical	Pressure Gage	103.4 kPa to 103.4 MPa	0.06 psi + 0.22 % of reading	Dead Weight Tester Druck DPI 611	HCP-041	F1, F3	F, O
Mechanical	Pressure Gage	-14.5 psi to 15 000 psi	0.06 psi + 0.22 % of reading	Dead Weight Tester Druck DPI 611	HCP-041	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	Up to 330 mV	20 μ V/V + 1 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	0.33 V to 3.3 V	11 μ V/V + 2 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	3.3 V to 33 V	12 μ V/V + 20 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	33 V to 330 V	18 μ V/V + 150 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	330 V to 1 000 V	18 μ V/V + 1.5 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Current	Up to 330 μ A	150 μ A/A + 0.02 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Current	0.33 mA to 3.3 mA	100 μ A/A + 0.05 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Current	3.3 mA to 33 mA	100 μ A/A + 0.25 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Current	33 mA to 330 mA	100 μ A/A + 2.5 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Current	0.33 A to 1.1 A	200 μ A/A + 40 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Current	1.1 A to 3 A	380 μ A/A + 40 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O



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Electrical	Equipment to Measure DC Current	3 A to 11 A	500 μ A/A + 500 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	0 Ω to 11 Ω	40 $\mu\Omega/\Omega$ + 1 m Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	11 Ω to 110 Ω	28 $\mu\Omega/\Omega$ + 1.4 m Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	110 Ω to 1.1 k Ω	28 $\mu\Omega/\Omega$ + 2 m Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	1.1 k Ω to 11 k Ω	28 $\mu\Omega/\Omega$ + 20 m Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	11 k Ω to 110 k Ω	28 $\mu\Omega/\Omega$ + 200 m Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	110 k Ω to 1.1 M Ω	32 $\mu\Omega/\Omega$ + 2 Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	1.1 M Ω to 3.3 M Ω	60 $\mu\Omega/\Omega$ + 30 Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	3.3 M Ω to 11 M Ω	130 $\mu\Omega/\Omega$ + 50 Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	11 M Ω to 33 M Ω	250 $\mu\Omega/\Omega$ + 2.5 k Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	33 M Ω to 110 M Ω	40 $\mu\Omega/\Omega$ + 10 Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	110 M Ω to 330 M Ω	0.5 m Ω/Ω + 3 k Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	330 M Ω to 1,100 M Ω	15 m Ω/Ω + 0.5 M Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O



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Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	1 mV to 33 mV	0.8 mV/V + 6 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	1 mV to 33 mV	0.15 mV/V + 6 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	1 mV to 33 mV	0.2 mV/V + 6 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	1 mV to 33 mV	1 mV/V + 6 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	1 mV to 33 mV	3.5 mV/V + 12 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	1 mV to 33 mV	8 mV/V + 50 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	33 mV to 330 mV	0.3 mV/V + 8 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	33 mV to 330 mV	0.15 mV/V + 8 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 mV to 330 mV	0.16 mV/V + 8 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 mV to 330 mV	0.35 mV/V + 8 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O



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Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 mV to 330 mV	0.8 mV/V + 32 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	33 mV to 330 mV	2 mV/V + 70 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	0.33 V to 3.3 V	0.3 mV/V + 50 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	0.33 V to 3.3 V	0.15 mV/V + 60 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	0.33 V to 3.3 V	0.19 mV/V + 60 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	0.33 V to 3.3 V	0.3 mV/V + 50 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	0.33 V to 3.3 V	0.7 mV/V + 0.13 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	0.33 V to 3.3 V	2.4 mV/V + 0.6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	3.3 V to 33 V	0.3 mV/V + 0.65 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	3.3 V to 33 V	0.15 mV/V + 0.6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O



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Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	3.3 V to 33 V	0.24 mV/V + 0.6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	3.3 V to 33 V	0.35 mV/V + 0.6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	3.3 V to 33 V	0.9 mV/V + 1.6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz)	33 V to 330 V	0.19 mV/V + 2 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 10 kHz)	33 V to 330 V	0.2 mV/V + 6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 V to 330 V	0.25 mV/V + 6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 V to 330 V	0.3 mV/V + 6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 V to 330 V	2 mV/V + 50 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	330 V to 1 020 V	3 mV/V + 10 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	29 μ A to 330 μ A	1.25 mA/A + 0.1 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O



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Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	0.33 mA to 3.3 mA	1 mA/A + 0.15 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	3.3 mA to 33 mA	0.4 mA/A + 2 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	33 mA to 330 mA	0.4 mA/A + 20 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	0.33 A to 1.1 A	0.5 mA/A + 0.1 mA	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	1.1 A to 3 A	0.6 mA/A + 0.1 mA	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	3 A to 11 A	1 mA/A + 2 mA	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	3 A to 11 A	30 mA/A + 2 mA	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	1.1 nF to 3.3 nF	0.5 % of reading + 10 pF	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	3.3 nF to 0.33 μ F	0.25 % of reading + 30 pF	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	0.33 μ F to 1.1 μ F	0.25 % of reading + 1 nF	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	1.1 μ F to 3.3 μ F	0.25 % of reading + 3 nF	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	3.3 μ F to 11 μ F	0.25 % of reading + 10 nF	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-210 °C to -100 °C (Res. = 0.1° C)	0.27 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-100 °C to -30° C (Res. = 0.1° C)	0.16 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-30 °C to 150 °C (Res. = 0.1° C)	0.14 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	150 °C to 760 °C (Res. = 0.1° C)	0.17 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	760 °C to 1 200 °C (Res. = 0.1° C)	0.23 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-200 °C to -100 °C (Res. = 0.1° C)	0.33 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-100 °C to -25°C (Res. = 0.1° C)	0.18 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-25 °C to 120 °C (Res. = 0.1° C)	0.16 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	120 °C to 1 000 °C (Res. = 0.1° C)	0.26 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	1 000 °C to 1 372 °C (Res. = 0.1° C)	0.4 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-250 °C to -150 °C (Res. = 0.1° C)	0.47 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-150 °C to 0 °C (Res. = 0.1° C)	0.36 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	0 °C to 120 °C (Res. = 0.1° C)	0.37 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	120 °C to 400 °C (Res. = 0.1° C)	0.14 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	-200 °C to 0 °C	0.05 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	0 °C to 100 °C	0.07 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	100 °C to 400 °C	0.1 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	400 °C to 630 °C	0.12 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	630 °C to 800 °C	0.23 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	-200 °C to 0 °C	0.05 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	0 °C to 100 °C	0.07 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	100 °C to 300 °C	0.09 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	300 °C to 400 °C	0.1 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	400 °C to 630 °C	0.12 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	-200 °C to -190 °C	0.25 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	-190 °C to 0 °C	0.05 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	0 °C to 100 °C	0.06 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	100 °C to 260 °C	0.07 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	260 °C to 300 °C	0.08 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	300 °C to 400 °C	0.09 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	400 °C to 630 °C	0.23 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 k Ω	-200 °C to 0 °C	0.03 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 k Ω	0 °C to 100 °C	0.04 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 k Ω	100 °C to 260 °C	0.05 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 k Ω	260 °C to 300 °C	0.06 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 k Ω	300 °C to 630 °C	0.23 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Hipot Testers	0.5 kV to 10 kV	0.001 kV/kV + 0.011 kV	Fluke 5320A Multifunction Electrical Tester Calibrator	HCP-062	F1, F3	F, O



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Electrical	Gauss Meters/ Magnetometers	2 Gauss to 100 Gauss	0.034 Gauss/Gauss + 0.18 Gauss	Magwerks Gauss Meter Calibrator with Coil	HCP-048	F1, F3	F, O
Thermodynamic	Equipment to Measure Humidity (RH)	10 % RH to 95 % RH	2.2 % RH	Saturated Salts Std's	HCP-087	F1, F3	F, O
Thermodynamic	Infrared Thermometers	-10 °C to 150 °C	2.4 °C	Omega BB701	HCP-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Analytical Balances	1 mg to 120 g (Res. = 0.000 1 g)	0.57 mg	ASTM E617 Class 1 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Analytical Balances	10 mg to 620 g (Res. = 0.001 g)	1.1 mg	ASTM E617 Class 1 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Precision Balances	100 mg to 1 200 g (Res. = 0.01 g)	0.12 g	ASTM E617 Class 1 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Precision Balances	1 g to 10 kg (Res. =0.1 g)	0.58 g	ASTM E617 Class 1 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Scale Bench	0.1 lb to 10 lb (Res. = 0.001 lb)	0.0 014 lb	ASTM E617 Class 6 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Scale Bench	0.1 lb to 100 lb (Res. = 0.01 lb)	0.0 086 lb	ASTM E617 Class 6 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Scale Floor	1 lb to 500 lb (Res. = 0.05 lb)	0.03 lb	ASTM E617 Class 6 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Scale Floor	2.5 lb to 5 000 lb (Res. = 0.5 lb)	0.29 lb	ASTM E617 Class 6 Weights	HCP-011	F1, F3	F, O
Chemical	Equipment to Measure pH	4 pH	0.03 pH	NIST Traceable Calibration Solution	HCP-104	F1, F3	F, O
Chemical	Equipment to Measure pH	7 pH	0.03 pH	NIST Traceable Calibration Solution	HCP-104	F1, F3	F, O



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Chemical	Equipment to Measure pH	10 pH	0.03 pH	NIST Traceable Calibration Solution	HCP-104	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	23 μ S/cm	2.5 μ S/cm + 0.88 % of Reading μ S/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	447 μ S/cm	2.5 μ S/cm + 0.88 % of Reading μ S/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	1 411 μ S/cm	2.5 μ S/cm + 0.88 % of Reading μ S/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	2 070 μ S/cm	2.5 μ S/cm + 0.88 % of Reading μ S/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O



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Dimensional	Thread Ring Gages (Pitch Diameter)	M 1.6 x 0.35 to M 100 x 6	(340 + 63L) μ m	Master Threaded Set Plug	HCP-093	F1, F3	F, O
Dimensional	Thread Ring Gages (Pitch Diameter)	0-80 to 4-10	(8.6 + 1.6L) μ m	Master Threaded Set Plug	HCP-093	F1, F3	F, O
Dimensional	Thread Ring Gages (Minor Diameter)	M 1.6 x 0.35 to M 100 x 6	(68 + 19L) μ m	Master Plain Class X Plug Gage	HCP-093	F1, F3	F, O
Dimensional	Thread Ring Gages (Minor Diameter)	0-80 to 4-10	(1.8 + 0.48L) μ m	Master Plain Class X Plug Gage	HCP-093	F1, F3	F, O
Dimensional	Micrometers	1 mm to 1016 mm	(1.2 + 0.2L) μ m	Gage Blocks	HCP-003	F1, F3	F, O
Dimensional	Micrometers	0.05 in to 40 in	(48 + 7.9L) μ m	Gage Blocks	HCP-003	F1, F3	F, O
Dimensional	Indicators	0.012 7 mm to 101.6 mm	3.05 μ m	Mitutoyo 170-101 Dial Gage Tester, Gage Blocks	HPI-002	F1, F3	F, O
Dimensional	Indicators	0.000 5 in to 4 in	120 μ m	Mitutoyo 170-101 Dial Gage Tester, Gage Blocks	HPI-002	F1, F3	F, O
Dimensional	Calipers	1 mm to 2032 mm	(13 + 0.3L) μ m	Gage Blocks	HCP-001	F1, F3	F, O
Dimensional	Calipers	0.05 in to 80 in	(520 + 3.9L) μ m	Gage Blocks	HCP-001	F1, F3	F, O
Dimensional	Optical Comparators (X & Y Axis Linearity)	1.25 mm to 304.8 mm	(3.8 + 0.6L) μ m	Gage Blocks, Glass Master	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (X & Y Axis Linearity)	0.05 in to 12.0 in	(150 + 23L) μ m	Gage Blocks, Glass Master	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Axial Orientation) (@ 4 in)	1 ° (Y Axis Travel)	0.075 °	Glass Master	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification)	5X	0.05 %	Magnification Sphere Standards, Glass Master	HCP-036	F1, F3	F, O



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 793 West Center Street, West Bridgewater, MA 02379
 Contact Name: Rey Feliz Phone: 602-684-0313

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Dimensional	Optical Comparators (Magnification)	10X	0.05 %	Magnification Sphere Standards, Glass Master	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification)	20X	0.02 %	Magnification Sphere Standards, Glass Master	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification)	31.25X	0.02 %	Magnification Sphere Standards, Glass Master	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification)	50X	0.02 %	Magnification Sphere Standards, Glass Master	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification)	62.5X	0.02 %	Magnification Sphere Standards, Glass Master	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification)	100X	0.02 %	Magnification Sphere Standards, Glass Master	HCP-036	F1, F3	F, O
Dimensional	Coordinate Measuring Machine (X-Axis)	Up to 24 in	(63 + 5.6L) μ m	Gage Blocks, Ball Bar, Step Gage	HCP-085	F1, F3	F, O
Dimensional	Coordinate Measuring Machine (X-Axis)	Up to 600 mm	(1.6 + 0.14L) μ m	Gage Blocks, Ball Bar, Step Gage	HCP-085	F1, F3	F, O
Dimensional	Roundness Measuring Machine (Diameter)	1.25 mm to 304.8 mm	0.19 μ m	Gage Blocks, Glass Master Hemisphere	HCP-101	F1, F3	F, O
Dimensional	Roundness Measuring Machine (Diameter)	0.05 in to 12 in	7.5 μ m	Gage Blocks, Glass Master Hemisphere	HCP-101	F1, F3	F, O
Dimensional	Contour Measuring Machines	101.6 mm to 203.2 mm	(1.1 + 0.08L) μ m	Gage Blocks, Glass Master Hemisphere	HCP-102	F1, F3	F, O
Dimensional	Contour Measuring Machines	4 in to 8 in	(41 + 3.4L) μ m	Gage Blocks, Glass Master Hemisphere	HCP-102	F1, F3	F, O
Dimensional	Video Measurement Machine (X-Axis)	Up to 12 in	27 μ m/in + 75 μ m	Glass Scale	HCP-084	F1, F3	F, O



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Dimensional	Video Measurement Machine (Y-Axis)	Up to 12 in	27 $\mu\text{m}/\text{in} + 75 \mu\text{m}$	Glass Scale	HCP-084	F1, F3	F, O
Dimensional	Surface Plates (Flatness)	254 mm to 3 048 mm (Diagonal)	(1.7 + 0.02D) μm	Planekator, Indicator	HCP-035	F1, F3	F, O
Dimensional	Surface Plates (Flatness)	10 in to 120 in (Diagonal)	(66 + 0.6D) in	Planekater, Indicator	HCP-035	F1, F3	F, O
Dimensional	Surface Plates (Repeat Reading)	254 mm to 3 048 mm (Diagonal)	1.3 μm	Repeat-o-Meter, Indicator	HCP-035	F1, F3	F, O
Dimensional	Surface Plates (Repeat Reading)	10 in to 120 in (Diagonal)	51 μm	Repeat-o-Meter, Indicator	HCP-035	F1, F3	F, O
Dimensional	Thread Plug (Pitch Diameter)	0.02 in to 8 in	(137 + 18L) μm	Fowler THV, Thread Measuring Wires	HCP-016	F1, F3	F, O
Dimensional	Cylindrical Pin Gages	0.01 in to 4 in	(17 + 2.2L) μm	Fowler THV	HCP-014	F1, F3	F, O
Dimensional	Height Gages	0.01 in to 40 in	(58.6 + 4.7L) μm	Gage Blocks	HCP-056	F1, F3	F, O
Dimensional	Profilometers	1 μm to 1 000 μm	4 μm	Calibrated Surface Finish Patch	HCP-025	F1, F3	F, O
Dimensional	Thread Wires	0.004 8 in to 0.289 in	31 μm	P&W Supermicrometer Mastered with Gage Blocks	HCP-033	F1, F3	F
Dimensional	CMM Spheres/ Gage Balls	0.001 in to 1 in	32 μm	P&W Supermicrometer Mastered with Gage Blocks, Roundness Machine	HCP-032	F1, F3	F
Mechanical	Hardness Testers (HRA)	61.2 HRA (Low)	1.9 HRA	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRA)	71.6 HRA (Middle)	1.9 HRA	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O



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Mechanical	Hardness Testers (HRA)	82.3 HRA (High)	1.9 HRA	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRBW)	55.5 HRBW (Low)	1.9 HRBW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRBW)	68.5 HRBW (Middle)	1.9 HRBW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRBW)	95.2 HRBW (High)	1.9 HRBW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRC)	28.6 HRC (Low)	1.9 HRC	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRC)	50.2 HRC (Middle)	1.9 HRC	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRC)	62.8 HRC (High)	1.9 HRC	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15N)	70.9 HR15N (Low)	1.9 HR15N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15N)	91.3 HR15N (High)	1.9 HR15N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15TW)	74.7 HR15TW (Low)	1.9 HR15TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15TW)	88.5 HR15TW (High)	1.9 HR15TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR30N)	43.0 HR30N (Low)	1.9 HR30N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR30N)	81.2 HR30N (High)	1.9 HR30N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O



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Mechanical	Hardness Testers (HR30TW)	55.6 HR30TW (Low)	1.9 HR30TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR30TW)	76.5 HR30TW (High)	1.9 HR30TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45N)	26.9 HR45N (Low)	1.9 HR45N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45N)	69.2 HR45N (High)	1.9 HR45N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45TW)	31.4 HR45TW (Low)	1.9 HR45TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45TW)	56.4 HR45TW (High)	1.9 HR45TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Measuring Gages	Up to 200 lbf	0.12 lbf	Hanging Weights	HCP-090	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Measuring Gages	Up to 20 00 lbf	0.001 1 lbf/lbf + 0.041 lbf	Futek Load Cell	HCP-090	F1, F3	F, O
Chemical	Equipment to Measure pH	4 pH	0.03 pH	NIST Traceable Calibration Solution	HCP-104	F1, F3	F, O
Chemical	Equipment to Measure pH	7 pH	0.03 pH	NIST Traceable Calibration Solution	HCP-104	F1, F3	F, O
Chemical	Equipment to Measure pH	10 pH	0.03 pH	NIST Traceable Calibration Solution	HCP-104	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	23 μ S/cm	2.5 μ S/cm + 0.88 % of Reading μ S/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	447 μ S/cm	2.5 μ S/cm + 0.88 % of Reading μ S/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O



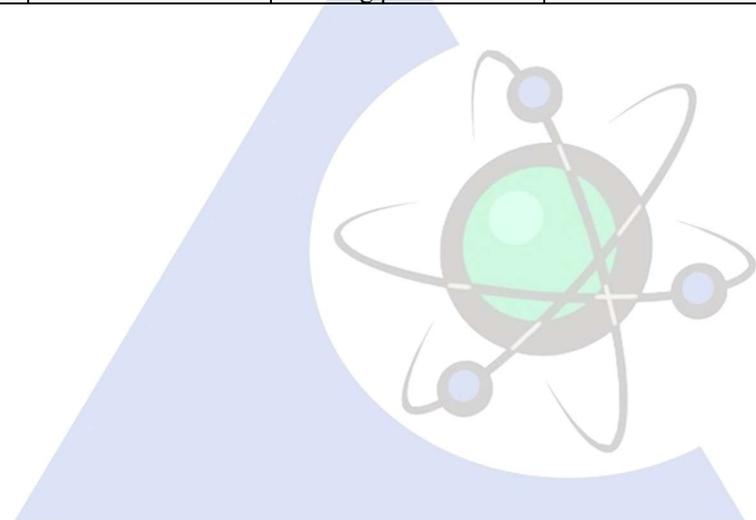
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Chemical	Equipment to Measure Conductivity	1 411 μ S/cm	2.5 μ S/cm + 0.88 % of Reading μ S/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	2 070 μ S/cm	2.5 μ S/cm + 0.88 % of Reading μ S/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O





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793 West Center Street, West Bridgewater, MA 02379

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Dimensional	Thread Ring Gages (Pitch Diameter)	M 1.6 x 0.35 to M 100 x 6	(340 + 63L) μ in	Master Threaded Set Plug	HCP-093	F1, F3	F, O
Dimensional	Thread Ring Gages (Pitch Diameter)	0-80 to 4-10	(8.6 + 1.6L) μ m	Master Threaded Set Plug	HCP-093	F1, F3	F, O
Dimensional	Thread Ring Gages (Minor Diameter)	M 1.6 x 0.35 to M 100 x 6	(68 + 19L) μ in	Master Plain Class X Plug Gage	HCP-093	F1, F3	F, O
Dimensional	Thread Ring Gages (Minor Diameter)	0-80 to 4-10	(1.8 + 0.48L) μ m	Master Plain Class X Plug Gage	HCP-093	F1, F3	F, O
Dimensional	Cylindrical Plug and Discs	0.254 mm to 304.8 mm	(0.79 + 0.04L) μ m	P W Super micrometer	HCP-014	F1, F3	F, O
Dimensional	Cylindrical Plug and Discs	0.01 in to 12 in	(31 + 1.6L) μ in	P W Super micrometer	HCP-014	F1, F3	F, O
Dimensional	Pin Gages	0.254 mm to 25.4 mm	1.1 μ m	Twin Horizontal Class ZZ	HCP-014	F1, F3	F, O
Dimensional	Pin Gages	0.01 in to 1.0 in	43 μ in	Twin Horizontal Class ZZ	HCP-014	F1, F3	F, O
Dimensional	Micrometer Standards	25.4 mm to 914.4 mm	(2.4 + 0.2L) μ m	Gage Blocks	HCP-024	F1, F3	F, O
Dimensional	Micrometer Standards	1 in to 36 in	(93 + 8.1L) μ in	Gage Blocks	HCP-024	F1, F3	F, O
Dimensional	Micrometers	1 mm to 1 016 mm	(1.2 + 0.2L) μ m	Gage Blocks	HCP-003	F1, F3	F, O
Dimensional	Micrometers	0.05 in to 40 in	(48 + 7.9L) μ in	Gage Blocks	HCP-003	F1, F3	F, O
Dimensional	Calipers	1 mm to 2 032 mm	(13 + 0.3L) μ m	Gage Blocks	HCP-001	F1, F3	F, O
Dimensional	Calipers	0.05 in to 80 in	(520 + 3.9L) μ in	Gage Blocks	HCP-001	F1, F3	F, O
Dimensional	Indicators	Up to 50 mm (Res. 0.000 5 mm)	1 μ m	Digital Micrometer Head	HCP-002	F1, F3	F, O
Dimensional	Indicators	Up to 2 in (Res. 0.000 01 in)	40 μ in	Digital Micrometer Head	HCP-002	F1, F3	F, O



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Dimensional	Thread Plug Gage (Pitch Diameter)	0-80 to 4-4	(96 + 1.3L) μ in	Super Micrometer Mastered with Gage Blocks and Thread Wires	HCP-016	F1, F3	F
Dimensional	Thread Plug Gage (Pitch Diameter)	M 1.6 x 0.35 to M 100 x 6	(2.4 + 0.03L) μ m	Super Micrometer Mastered with Gage Blocks and Thread Wires	HCP-016	F1, F3	F
Dimensional	Thread Plug Gage (Major Diameter)	0-80 to 4-4	(32 + 1.9L) μ in	Super Micrometer Mastered with Gage Blocks	HCP-016	F1, F3	F
Dimensional	Thread Plug Gage (Major Diameter)	M 1.6 x 0.35 to M 100 x 6	(0.81 + 0.05L) μ m	Super Micrometer Mastered with Gage Blocks	HCP-016	F1, F3	F
Dimensional	Surface Plates (Flatness)	254 mm to 3 048 mm (Diagonal)	(1.7 + 0.02D) μ m	Planekator, Indicator	HCP-035	F1, F3	F, O
Dimensional	Surface Plates (Flatness)	10 in to 120 in (Diagonal)	(66 + 0.6D) in	Planekater, Indicator	HCP-035	F1, F3	F, O
Dimensional	Surface Plates (Repeat Reading)	254 mm to 3 048 mm (Diagonal)	1.3 μ m	Repeat-o-Meter, Indicator	HCP-035	F1, F3	F, O
Dimensional	Surface Plates (Repeat Reading)	10in to 120 in (Diagonal)	51 μ in	Repeat-o-Meter, Indicator	HCP-035	F1, F3	F, O
Dimensional	Optical Comparators (Linear Axis)	0.05 in to 12 in	(150 + 23L) μ in	Glass Masters	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Squareness of X axis to Y axis)	3 in	220 μ in	Glass Masters	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Angularity)	Up to 90 °	0.01°	Glass Masters	HCP-036	F1, F3	F, O



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Dimensional	Optical Comparators (Magnification) (Up to 24 in)	10X	450 μ in	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	20X	450 μ in	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	25X	450 μ in	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	30X	450 μ in	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	31.25X	450 μ in	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	50X	450 μ in	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	62.5X	450 μ in	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	100X	450 μ in	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	250X	450 μ in	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	500X	450 μ in	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Height Gage	Up to 40 in	(59 + 4.7L) μ in	Gage Blocks	HCP-056	F1, F3	F, O
Dimensional	Video Measurement Machine (X Axis)	Up to 12 in	27 μ in/in + 75 μ in	Glass Scale	HCP-084	F1, F3	O
Dimensional	Video Measurement Machine (Y Axis)	Up to 12 in	27 μ in/in + 75 μ in	Glass Scale	HCP-084	F1, F3	O
Dimensional	Video Measurement Machine (Z Axis) (Angularity)	0 ° \angle to 360 ° \angle	0.003 ° \angle	Glass Scale	HCP-084	F1, F3	O



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Dimensional	Profilometers	1 μ m to 1 000 μ m	4 μ m	Calibrated Surface Finish Patch	HCP-025 ASME B46.1	F1, F2, F3	F, O
Dimensional	Thread Wires	0.0 048 in to 0.289 in	31 μ m	P&W Supermicrometer Mastered with Gage Blocks	HCP-033 ASME B89.1.17	F1, F2, F3	F
Fluid Quantities	Pipettes	1 μ L to 1 000 μ L	1.2 μ L/mL + 0.014 μ L	Analytical Balance	HCP-086	F1, F3	F, O
Mechanical	Equipment to Measure Torque	32 ozf•in to 320 ozf•in	0.94 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	20 lbf•in to 60 lbf•in	0.55 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	60 lbf•in to 200 lbf•in	0.68 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	16 lbf•ft to 500 lbf•ft	0.64 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	500 lbf•ft to 1 400 lbf•ft	1.3 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Pressure Gage	103.4 kPa to 103.4 MPa	0.06 psi + 0.22 % of reading	Dead Weight Tester Druck DPI 611	HCP-041	F1, F3	F, O
Mechanical	Pressure Gage	-14.5 psi to 15 000 psi	0.06 psi + 0.22 % of reading	Dead Weight Tester Druck DPI 611	HCP-041	F1, F3	F, O
Mechanical	Hardness Testers (HRA)	61.2 HRA (Low)	1.9 HRA	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRA)	71.6 HRA (Middle)	1.9 HRA	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRA)	82.3 HRA (High)	1.9 HRA	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O



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Mechanical	Hardness Testers (HRBW)	55.5 HRBW (Low)	1.9 HRBW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRBW)	68.5 HRBW (Middle)	1.9 HRBW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRBW)	95.2 HRBW (High)	1.9 HRBW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRC)	28.6 HRC (Low)	1.9 HRC	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRC)	50.2 HRC (Middle)	1.9 HRC	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRC)	62.8 HRC (High)	1.9 HRC	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15N)	70.9 HR15N (Low)	1.9 HR15N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15N)	91.3 HR15N (High)	1.9 HR15N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15TW)	74.7 HR15TW (Low)	1.9 HR15TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15TW)	88.5 HR15TW (High)	1.9 HR15TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR30N)	43.0 HR30N (Low)	1.9 HR30N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR30N)	81.2 HR30N (High)	1.9 HR30N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR30TW)	55.6 HR30TW (Low)	1.9 HR30TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O



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Mechanical	Hardness Testers (HR30TW)	76.5 HR30TW (High)	1.9 HR30TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45N)	26.9 HR45N (Low)	1.9 HR45N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45N)	69.2 HR45N (High)	1.9 HR45N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45TW)	31.4 HR45TW (Low)	1.9 HR45TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45TW)	56.4 HR45TW (High)	1.9 HR45TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	Up to 330 mV	20 μ V/V + 1 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	0.33 V to 3.3 V	11 μ V/V + 2 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	3.3 V to 33 V	12 μ V/V + 20 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	33 V to 330 V	18 μ V/V + 150 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	330 V to 1 000 V	18 μ V/V + 1.5 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Current	Up to 330 μ A	150 μ A/A + 0.02 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Current	0.33 mA to 3.3 mA	100 μ A/A + 0.05 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Current	3.3 mA to 33 mA	100 μ A/A + 0.25 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O



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Electrical	Equipment to Measure DC Current	33 mA to 330 mA	100 μ A/A + 2.5 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Current	0.33 A to 1.1 A	200 μ A/A + 40 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Current	1.1 A to 3 A	380 μ A/A + 40 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Current	3 A to 11 A	500 μ A/A + 500 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	0 Ω to 11 Ω	40 $\mu\Omega/\Omega$ + 1 m Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	11 Ω to 110 Ω	28 $\mu\Omega/\Omega$ + 1.4 m Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	110 Ω to 1.1 k Ω	28 $\mu\Omega/\Omega$ + 2 m Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	1.1 k Ω to 11 k Ω	28 $\mu\Omega/\Omega$ + 20 m Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	11 k Ω to 110 k Ω	28 $\mu\Omega/\Omega$ + 200 m Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	110 k Ω to 1.1 M Ω	32 $\mu\Omega/\Omega$ + 2 Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	1.1 M Ω to 3.3 M Ω	60 $\mu\Omega/\Omega$ + 30 Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	3.3 M Ω to 11 M Ω	130 $\mu\Omega/\Omega$ + 50 Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	11 M Ω to 33 M Ω	250 $\mu\Omega/\Omega$ + 2.5 k Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O



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Electrical	Equipment to Measure Resistance	33 M Ω to 110 M Ω	40 $\mu\Omega/\Omega$ + 10 Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	110 M Ω to 330 M Ω	0.5 m Ω/Ω + 3 k Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	330 M Ω to 1,100 M Ω	15 m Ω/Ω + 0.5 M Ω	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	1 mV to 33 mV	0.8 mV/V + 6 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	1 mV to 33 mV	0.15 mV/V + 6 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	1 mV to 33 mV	0.2 mV/V + 6 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	1 mV to 33 mV	1 mV/V + 6 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	1 mV to 33 mV	3.5 mV/V + 12 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	1 mV to 33 mV	8 mV/V + 50 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	33 mV to 330 mV	0.3 mV/V + 8 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	33 mV to 330 mV	0.15 mV/V + 8 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O



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Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 mV to 330 mV	0.16 mV/V + 8 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 mV to 330 mV	0.35 mV/V + 8 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 mV to 330 mV	0.8 mV/V + 32 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	33 mV to 330 mV	2 mV/V + 70 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	0.33 V to 3.3 V	0.3 mV/V + 50 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	0.33 V to 3.3 V	0.15 mV/V + 60 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	0.33 V to 3.3 V	0.19 mV/V + 60 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	0.33 V to 3.3 V	0.3 mV/V + 50 μ V	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	0.33 V to 3.3 V	0.7 mV/V + 0.13 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O



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Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	0.33 V to 3.3 V	2.4 mV/V + 0.6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	3.3 V to 33 V	0.3 mV/V + 0.65 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	3.3 V to 33 V	0.15 mV/V + 0.6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	3.3 V to 33 V	0.24 mV/V + 0.6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	3.3 V to 33 V	0.35 mV/V + 0.6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	3.3 V to 33 V	0.9 mV/V + 1.6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz)	33 V to 330 V	0.19 mV/V + 2 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 10 kHz)	33 V to 330 V	0.2 mV/V + 6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 V to 330 V	0.25 mV/V + 6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 V to 330 V	0.3 mV/V + 6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O



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Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 V to 330 V	2 mV/V + 50 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	330 V to 1 020 V	3 mV/V + 10 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	29 μ A to 330 μ A	1.25 mA/A + 0.1 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	0.33 mA to 3.3 mA	1 mA/A + 0.15 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	3.3 mA to 33 mA	0.4 mA/A + 2 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	33 mA to 330 mA	0.4 mA/A + 20 μ A	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	0.33 A to 1.1 A	0.5 mA/A + 0.1 mA	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	1.1 A to 3 A	0.6 mA/A + 0.1 mA	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	3 A to 11 A	1 mA/A + 2 mA	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	3 A to 11 A	30 mA/A + 2 mA	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	1.1 nF to 3.3 nF	0.5 % of reading + 10 pF	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	3.3 nF to 0.33 μ F	0.25 % of reading + 30 pF	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	0.33 μ F to 1.1 μ F	0.25 % of reading + 1 nF	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O



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Electrical	Equipment to Measure Capacitance	1.1 μ F to 3.3 μ F	0.25 % of reading + 3 nF	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	3.3 μ F to 11 μ F	0.25 % of reading + 10 nF	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-210 °C to -100 °C (Res. = 0.1° C)	0.27 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-100 °C to -30° C (Res. = 0.1° C)	0.16 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-30 °C to 150 °C (Res. = 0.1° C)	0.14 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	150 °C to 760 °C (Res. = 0.1° C)	0.17 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	760 °C to 1 200 °C (Res. = 0.1° C)	0.23 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-200 °C to -100 °C (Res. = 0.1° C)	0.33 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-100 °C to -25°C (Res. = 0.1° C)	0.18 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-25 °C to 120 °C (Res. = 0.1° C)	0.16 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	120 °C to 1 000 °C (Res. = 0.1° C)	0.26 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	1 000 °C to 1 372 °C (Res. = 0.1° C)	0.4 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-250 °C to -150 °C (Res. = 0.1° C)	0.47 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-150 °C to 0 °C (Res. = 0.1° C)	0.36 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	0 °C to 120 °C (Res. = 0.1° C)	0.37 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	120 °C to 400 °C (Res. = 0.1° C)	0.14 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	-200 °C to 0 °C	0.05 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	0 °C to 100 °C	0.07 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	100 °C to 400 °C	0.10 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O



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 Contact Name: Rey Feliz Phone: 602-684-0313

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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	400 °C to 630 °C	0.12 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	630 °C to 800 °C	0.23 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	-200 °C to 0 °C	0.05 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	0 °C to 100 °C	0.07 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	100 °C to 300 °C	0.09 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	300 °C to 400 °C	0.1 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	400 °C to 630 °C	0.12 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	-200 °C to -190 °C	0.25 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	-190 °C to 0 °C	0.05 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	0 °C to 100 °C	0.06 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	100 °C to 260 °C	0.07 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	260 °C to 300 °C	0.08 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	300 °C to 400 °C	0.09 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	400 °C to 630 °C	0.23 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 k Ω	-200 °C to 0 °C	0.03 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 k Ω	0 °C to 100 °C	0.04 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 k Ω	100 °C to 260 °C	0.05 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 k Ω	260 °C to 300 °C	0.06 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 k Ω	300 °C to 630 °C	0.23 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Thermodynamic	Equipment to Measure Humidity (RH)	10 % RH to 95 % RH	2.2 % RH	Saturated Salts Std's	HCP-087	F1, F3	F, O
Thermodynamic	Infrared Thermometers	-10 °C to 150 °C	2.4 °C	Omega BB701	HCP-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Analytical Balances	1 mg to 120 g (Res. = 0.000 1 g)	0.57 mg	ASTM E617 Class 1 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Analytical Balances	10 mg to 620 g (Res. = 0.001 g)	1.1 mg	ASTM E617 Class 1 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Precision Balances	100 mg to 1 200 g (Res. = 0.01 g)	0.12 g	ASTM E617 Class 1 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Precision Balances	1 g to 10 kg (Res. =0.1 g)	0.58 g	ASTM E617 Class 1 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Scale Bench	0.1 lb to 10 lb (Res. = 0.001 lb)	0.0 014 lb	ASTM E617 Class 6 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Scale Bench	0.1 lb to 100 lb (Res. = 0.01 lb)	0.0 086 lb	ASTM E617 Class 6 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Scale Floor	1 lb to 500 lb (Res. = 0.05 lb)	0.03 lb	ASTM E617 Class 6 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Scale Floor	2.5 lb to 5 000 lb (Res. = 0.5 lb)	0.29 lb	ASTM E617 Class 6 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Weights	0.25 mg to 250 g	0.064 mg	Master Weight Scale Mastered with Master Weights	HCP-027	F1, F3	F



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Mass, Force, and Weighing Devices	Weights	250 g to 6 000 g	0.025 g	Master Weight Scale Mastered with Master Weights	HCP-027	F1, F3	F
Mass, Force, and Weighing Devices	Weights	6 000 g to 31 000 g	0.16 g	Master Weight Scale Mastered with Master Weights	HCP-027 ASTM E617	F1, F2, F3	F
Mass, Force, and Weighing Devices	Force Measuring Gages	Up to 200 lbf	0.12 lbf	Hanging Weights	HCP-090	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Measuring Gages	Up to 1 000 lbf	0.001 1 lbf/lbf + 0.041 lbf	Futek Load Cell	HCP-090	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Measuring Gages	1 000 lbf to 10 000 lbf	0.001 1 lbf/lbf + 1.3 lbf	Futek Load Cell	HCP-090	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Measuring Gages	10 000 lbf to 50 000 lbf	0.002 3 lbf/lbf + 1 lbf	Futek Load Cell	HCP-090	F1, F3	F, O
Chemical	Equipment to Measure pH	4 pH	0.03 pH	NIST Traceable Calibration Solution	HCP-104	F1, F3	F, O
Chemical	Equipment to Measure pH	7 pH	0.03 pH	NIST Traceable Calibration Solution	HCP-104	F1, F3	F, O
Chemical	Equipment to Measure pH	10 pH	0.03 pH	NIST Traceable Calibration Solution	HCP-104	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	23 μ S/cm	2.5 μ S/cm + 0.88 % of Reading μ S/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	447 μ S/cm	2.5 μ S/cm + 0.88 % of Reading μ S/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O



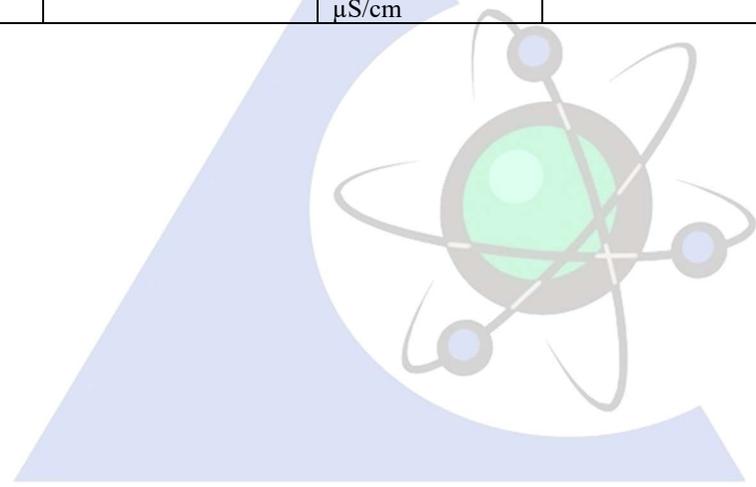
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Chemical	Equipment to Measure Conductivity	1 411 μ S/cm	2.5 μ S/cm + 0.88 % of Reading μ S/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	2 070 μ S/cm	2.5 μ S/cm + 0.88 % of Reading μ S/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O





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Mechanical	Pressure Gage	103.4 kPa to 103.4 MPa	0.06 psi + 0.22 % of reading	Dead Weight Tester Druck DPI 611	HCP-041	F1, F3	F, O
Mechanical	Pressure Gage	-14.5 psi to 15 000 psi	0.06 psi + 0.22 % of reading	Dead Weight Tester Druck DPI 611	HCP-041	F1, F3	F, O
Mechanical	Equipment to Measure Torque	32 ozf•in to 320 ozf•in	0.94 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	20 lbf•in to 60 lbf•in	0.55 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	60 lbf•in to 200 lbf•in	0.68 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	16 lbf•ft to 500 lbf•ft	0.64 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	500 lbf•ft to 1 400 lbf•ft	1.3 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Hardness Testers (HRA)	61.2 HRA (Low)	1.9 HRA	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRA)	71.6 HRA (Middle)	1.9 HRA	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRA)	82.3 HRA (High)	1.9 HRA	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRBW)	55.5 HRBW (Low)	1.9 HRBW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRBW)	68.5 HRBW (Middle)	1.9 HRBW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRBW)	95.2 HRBW (High)	1.9 HRBW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O



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Mechanical	Hardness Testers (HRC)	28.6 HRC (Low)	1.9 HRC	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRC)	50.2 HRC (Middle)	1.9 HRC	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRC)	62.8 HRC (High)	1.9 HRC	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15N)	70.9 HR15N (Low)	1.9 HR15N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15N)	91.3 HR15N (High)	1.9 HR15N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15TW)	74.7 HR15TW (Low)	1.9 HR15TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15TW)	88.5 HR15TW (High)	1.9 HR15TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR30N)	43.0 HR30N (Low)	1.9 HR30N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR30N)	81.2 HR30N (High)	1.9 HR30N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR30TW)	55.6 HR30TW (Low)	1.9 HR30TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR30TW)	76.5 HR30TW (High)	1.9 HR30TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45N)	26.9 HR45N (Low)	1.9 HR45N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45N)	69.2 HR45N (High)	1.9 HR45N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O



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Mechanical	Hardness Testers (HR45TW)	31.4 HR45TW (Low)	1.9 HR45TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45TW)	56.4 HR45TW (High)	1.9 HR45TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Measuring Gages	Up to 200 lbf	0.1174 lbf	Hanging Weights	HCP-090	F1, F3	F, O
Dimensional	Gage Blocks	0.01 in to 20 in	1.5 μ in/in + 6.5 μ in	Federal Comparator Master Gage Blocks	HCP-030	F1, F3	F, O
Dimensional	Ring Gages	0.04 in to 20 in	17 μ in + 0.7 μ in/in	P&W Lab Master Mastered with Master Gage Blocks and Master Ring Gage	HCP-017	F1, F3	F, O
Dimensional	Surface Finish Patches	1 μ in to 1 000 μ in	2 μ in	Profilometer SJ-410	HCP-015	F1, F3	F, O
Dimensional	Profilometers	1 μ in to 1 000 μ in	4 μ in	Calibrated Surface Finish Patch	HCP-025	F1, F3	F, O
Dimensional	Micrometers	1 mm to 1 016 mm	(1.2 + 0.2L) μ m	Gage Blocks	HCP-003	F1, F3	F, O
Dimensional	Micrometers	0.05 in to 40 in	(48 + 7.9L) μ in	Gage Blocks	HCP-003	F1, F3	F, O
Dimensional	Calipers	1 mm to 2 032 mm	(13 + 0.3L) μ m	Gage Blocks	HCP-001	F1, F3	F, O
Dimensional	Calipers	0.05 in to 80 in	(520 + 3.9L) μ in	Gage Blocks	HCP-001	F1, F3	F, O
Dimensional	Indicators	Up to 50 mm (Res. 0.000 5 mm)	1 μ m	Digital Micrometer Head	HCP-002	F1, F3	F, O
Dimensional	Indicators	Up to 2 in (Res. 0.000 01 in)	40 μ m	Digital Micrometer Head	HCP-002	F1, F3	F, O
Dimensional	Thread Plug Gage (Pitch Diameter)	0-80 to 4-4	(96 + 1.3L) μ m	Super Micrometer Mastered with Gage Blocks and Thread Wires	HCP-016	F1, F3	F



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Dimensional	Thread Plug Gage (Pitch Diameter)	M 1.6 x 0.35 to M 100 x 6	(2.4 + 0.03L) μ m	Super Micrometer Mastered with Gage Blocks and Thread Wires	HCP-016	F1, F3	F
Dimensional	Thread Plug Gage (Major Diameter)	0-80 to 4-4	(32 + 1.9L) μ in	Super Micrometer Mastered with Gage Blocks	HCP-016	F1, F3	F
Dimensional	Thread Plug Gage (Major Diameter)	M 1.6 x 0.35 to M 100 x 6	(0.81 + 0.05L) μ m	Super Micrometer Mastered with Gage Blocks	HCP-016	F1, F3	F
Dimensional	Plug Gages	0.001 in to 12 in	31 μ in + 1.6 μ in/in	Super Micrometer Mastered with Gage Blocks	HCP-014	F1, F3	F
Dimensional	Plug Gages	0.254 mm to 304.8 mm	(0.79 + 0.04L) μ m	Super Micrometer Mastered with Gage Blocks	HCP-014	F1, F3	F



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

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

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

3. Location of activity:

**Location
Code**

Location

- | | |
|---|--|
| F | Conformity assessment activity is performed at the CABs fixed facility |
| O | Conformity assessment activity is performed onsite at the CABs 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 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.

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