

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

BDC Calibration

Av. Gregorio Luperón #51, Los Restauradores, Santo Domingo 10137, República Dominicana

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Chemical, Dimensional, Electrical, Mass, Force, and Weighing Device, Mechanical, Optical, Thermodynamic, Time and Frequency (As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Initial Accreditation Date:

Issue Date:

Expiration Date:

February 11, 2023

February 11, 2023

June 30, 2025

Accreditation No.:

Certificate No.:

108843

L23-110

Tracy Szerszen President

Perry Johnson Laboratory Accreditation, Inc. (PJLA) 755 W. Big Beaver, Suite 1325 Troy, Michigan 48084 The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjlabs.com





BDC Calibration

Av. Gregorio Luperón #51, Los Restauradores, Santo Domingo 10137, República Dominicana Contact Name: Mr. Franco Giglifiore Phone: 809-338-8888

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

Chemical

| MEASURED INSTRUMENT, QUANTITY OR GAUGE | RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE | CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±) | CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED |
|---|---|--|--|
| pH Meter/Probe FO | 4 pH to 10 pH | 0.009 pH | pH Standard Solutions PR-CAL-021 |
| Conductivity Meter/Probe FO | 25 μS/cm | 0.62 μS/cm | Conductivity Standard |
| | 111.3 μS/cm | 0.97 μS/cm | Solutions PR-CAL-022 |
| | 1015 μS/cm | 5.4 μS/cm | PR-CAL-022 |
| | 1408 μS/cm | 6.9 μS/cm | |
| | 12.85 mS/cm | 0.36 mS/cm | |
| Refractometers FO | 1.355 n | 0.000 29 n | Refraction Standard Liquids |
| | 1.420 n | 0.000 26 n | PR-CAL-024 |
| | 1.430 n | 0.000 26 n | |
| | 1.480 n | 0.000 31 n | |
| | 14.94 °Brix | 0.15 °Brix | |
| | 55.03 °Brix | 0.11 °Brix | |
| | 76.23 °Brix | 0.092 °Brix | |
| Turbidity Meter/Probe FO | 0.04 NTU | 0.058 NTU | Turbidity Standard Solutions |
| · | 20 NTU | 0.63 NTU | PR-CAL-040 |
| | 100 NTU | 5.9 NTU | |
| | 200 NTU | 6.3 NTU | |
| | 800 NTU | 11 NTU | |
| | 1 000 NTU | 13 NTU | |
| | 4 000 NTTU | 47 NTU | |





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Dimensional

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|--|--|---|--|
| Calipers FO | 0.05 in to 8 in | $(289 + 9.73 \times 10^{-2} L) \mu in$ | Gage Blocks |
| | 8 in to 12 in | (287 + 0.35L) μin | PR-CAL-032 |
| | 12 in to 24 in | (288 + 0.25L) μin | |
| Micrometers FO | 0.05 in to 1 in | $(3.92 + 2.4L) \mu in$ | Gage Blocks |
| | 1 in to 8 in | $(4.15 + 2.2L) \mu in$ | PR-CAL-033 |
| Indicators, dial, digital FO | 0.05 in to 6 in | (119 + 1.9L) μin | Gage Blocks PR-CAL-034 |
| Rules FO | 0.05 in to 24 in | 0.009 in | Master blocks PR-CAL-035 |
| Tapes FO | 0.05 in to 300 in | $(0.02 + 5.4 \times 10^{-4} \text{L}) \text{ in}$ | Master blocks PR-CAL-035 |
| Pin gages ^{FO} | 0.011 in to 1 in | 105 μίη | Micrometer PR-CAL-065 |

Electrical

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|--|--|--|--|
| MEASURED INSTRUMENT, QUANTITY OR GAUGE | RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE | CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±) | CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED |
| Equipment to measure DC voltage FO | 1 mV to 75 mV | 0.025 % of reading + $12 \mu V$ | Fluke 724 |
| | 75 mV to 100 mV | 0.022 % of reading + 20 μV | PR-CAL-026 |
| | 0.1 V to 10 V | 0.020 % of reading + 6.2 mV | |
| Equipment to output DC voltage FO | 1 mV to 90 mV | 0.021 % of reading + 20 μV | |
| | 0.09 V to 30 V | 0.021 % of reading + 2 mV | |
| Equipment to output DC current FO | 1 mA to 24 mA | 0.21 % of reading + 2 μA | |
| Equipment to Measure | 15 Ω to 400 Ω | 101 mΩ | |
| Resistance FO | 400 Ω to 1 500 Ω | 504 mΩ | |
| | 1 500 Ω to 3 200 Ω | 1.0 Ω | |
| Equipment to output | $0.2~\Omega$ to $400~\Omega$ | 101 mΩ | |
| Resistance FO | 400 Ω to 1 500 Ω | 504 mΩ | |
| | 1 500 Ω to 3 200 Ω | 1.0 Ω | |





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|--|---|--|--|
| Temperature Calibration, | 600 °C to 800 °C | 2.2 °C | Fluke 724 |
| Indication and Control | 800 °C to 1 000 °C | 1.8 °C | Electrical Simulation of |
| Equipment used with Thermocouple Type B FO | 1 000 °C to 1 800 °C | 1.4 °C | Thermocouple Output PR-CAL-026 |
| Temperature Calibration, | -200 °C to 0 °C | 0.9 °C | |
| Indication and Control | 0 °C to 950 °C | 0.7 °C | |
| Equipment used with | | | |
| Thermocouple Type E FO | 200.00 . 0.00 | 1.0.00 | |
| Temperature Calibration, Indication and Control | -200 °C to 0 °C | 1.0 °C | |
| Equipment used with | 0 °C to 1 200 °C | 0.7 °C | |
| Thermocouple Type J FO | | | |
| Temperature Calibration, | -200 °C to 0 °C | 1.2 °C | |
| Indication and Control | 0 °C to 1 370 °C | 0.8 °C | |
| Equipment used with | 0 0 10 1 0 7 0 | 0.0 | |
| Thermocouple Type K FO | | 9// | |
| Temperature Calibration, | -200 °C to 0 °C | 0.85 °C | |
| Indication and Control | 0 °C to 900 °C | 0.7 °C | |
| Equipment used with | | | |
| Thermocouple Type L FO Temperature Calibration, | -200 °C to 0 °C | 1.5 °C | |
| Indication and Control | | | |
| Equipment used with | 0 °C to 1 300 °C | 0.9 °C | |
| Thermocouple Type N FO | | | |
| Temperature Calibration, | -20 °C to 0 °C | 2.5 °C | |
| Indication and Control | 0 °C to 500 °C | 1.8 °C | |
| Equipment used with | 500 °C to 1 750 °C | 1.4 °C | |
| Thermocouple Type R FO Temperature Calibration, | -20 °C to 0 °C | 2.5 °C | |
| Indication and Control | 0 °C to 500 °C | 1.8 °C | |
| Equipment used with | 500 °C to 1 750 °C | 1.5 °C | |
| Thermocouple Type S FO | | | |
| Temperature Calibration, Indication and Control | -200 °C to 0 °C | 1.2 °C | |
| Equipment used with | 0 °C to 400 °C | 0.8 °C | |
| Thermocouple Type T FO | | | |
| Temperature Calibration, | -200 °C to 0 °C | 1.1 °C | |
| Indication and Control | 0 °C to 400 °C | 0.75 °C | |
| Equipment used with | 0 0 10 100 0 | 0.73 | |
| Thermocouple Type U FO | | | |





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Electrical

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|---|---|--|--|
| Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Ni120, 120 Ω FO | -80 °C to 260 °C | 0.20 °C | Fluke 724 Electrical Simulation of RTD Output PR-CAL-026 |
| Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Pt 385, 100Ω FO | -200 °C to 800 °C | 0.33 °C | |
| Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Pt 392, 100Ω FO | -200 °C to 630 °C | 0.30 °C | |
| Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Pt 385, 200 Ω FO | -200 °C to 250 °C 250 °C to 630 °C | 0.20 °C 0.80 °C | |
| Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Pt 385, 500 Ω FO | -200 °C to 500 °C 500 °C to 630 °C | 0.30 °C 0.40 °C | |
| Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Pt 385, 1 000 Ω FO | -200 °C to 630 °C | 0.20 °C | |





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

Mass, Force, Weighing Devices

| MEASURED INSTRUMENT, QUANTITY OR GAUGE | RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE | CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±) | CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED |
|---|---|--|--|
| Scales and balances FO | 1 g to 100 g 100 g to 200 g | $(0.1 + 1.5 \times 10^{-3} \text{Wt}) \text{ mg}$ $(0.1 + 1.6 \times 10^{-3} \text{Wt}) \text{ mg}$ | OIML E2 weights PR-CAL-020 |
| | 200 g to 1 000 g | $(-0.1 + 1.9 \times 10^{-3} \text{Wt}) \text{ mg}$ | |
| | 1 000 g to 5 000 g | $(0.1 + 1.9 \times 10^{-3} \text{Wt}) \text{ mg}$ | OIML E2 weights |
| | 5 000 g to 10 000 g | $(0.2 + 1.9 \times 10^{-3} \text{Wt}) \text{ mg}$ | PR-CAL-020 |
| | 10 kg to 20 kg | $(0.6 + 1.8 \times 10^{-3} \text{Wt}) \text{ mg}$ | |
| | 20 kg to 40 kg | $(-206 + 1.2 \times 10^{-2} \text{Wt}) \text{ mg}$ | OIML E2, F1, F2 weights PR-CAL-020 |
| Scales and weighing devices FO | 40 kg to 300 kg | $(8.8 + 9.3 \times 10^{-2} \text{Wt}) \text{ g}$ | ASTM 6 weights |
| | 300 kg to 1 600 kg | (-46.5 + 0.26Wt) g | PR-CAL-020 |
| Mass Weights | 1 g | 0.022 mg | OIML E2 weight set Balances Mass Comparator PR-CAL-051 |
| ASTM Class 2, 3, 4, 5, 6 & 7 | 2 g | 0.033 mg | |
| OIML Class F1, F2, M1, M2 & M3 | 5 g | 0.038 mg | |
| NIST Class F FO | 10 g | 0.055 mg | |
| | 20 g | 0.080 mg | 1 |
| | 50 g | 0.11 mg | \ |
| | 100 g | 0.13 mg | |
| | 200 g | 0.22 mg | 1 |
| | 500 g | 1 mg | = |
| | 1 kg | 1.2 mg | = |
| | 2 kg | 1.6 mg | |
| | 3 kg | 1.8 mg | |
| | 5 kg | 3.8 mg | |
| | 10 kg | 7 mg | |
| Mass Weights | 20 kg | 26 mg | OIML E2 and F1 weights |
| NIST Class F, ASTM 5, 6 & 7 FO | 25 kg | 31 mg | Mass comparator PR-CAL-051 |



Issue: 02/2023



Certificate of Accreditation: Supplement

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

Mechanical

| MEASURED INSTRUMENT, QUANTITY OR GAUGE | RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE | CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±) | CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED |
|--|--|---|--|
| Pressure Gauges, | -14 psig to 0.2 psig | 0.023 psig | ADT681 and pneumatic |
| Vacuum Gauges FO | 0.2 psig to 60 psig | 0.023 psig | pump PR-CAL-037 |
| | 60 psig to 180 psig | 0.039 psig | TR-CAL-037 |
| | 180 psig to 240 psig | 0.054 psig | |
| | 240 psig to 300 psig | 0.064 psig | |
| Differential Pressure Gauges, | 0.3 hPa to 400 hPa | 0.1 hPa | Testo 526-2 and pneumatic |
| Pressure Gauges, FO | 400 hPa to 800 hPa | 0.13 hPa | pump PR-CAL-037 |
| | 800 hPa to 1 200 hPa | 0.18 hPa | FK-CAL-037 |
| | 1 200 hPa to 1 600 hPa | 0.25 hPa | |
| | 1 600 hPa to 2 000 hPa | 0.39 hPa | |
| Differential Pressure Gauges | -10 in H2O to + 10 in H2O | 0.005 6 in H2O | ADT681 and pneumatic |
| Pressure Gauges FO | | | pump PR-CAL-037 |
| Anemometers, Air Velocity Meters FO | 0.5 m/s to 14 m/s | 3.4 % of reading | Reference Air Velocity Meter Testo 420 PR-CAL-053 |
| Fume Hoods, Laminar Flow | 0.5 m/s to 14 m/s | 3.4 % of reading | Reference Air Velocity Meter |
| Hoods, Biosafety Cabinets, Air velocity only FO | | | Testo 420 PR-CAL-056 |
| Pipettes, Burettes, Dispensers | 0.25 μL to 20 μL | 0.08 μL | Gravimetric method |
| FO | 20 μL to 100 μL | 0.094 μL | reference to mass |
| | 100 μL to 200 μL | 0.12 μL | balances and OIML Class E2 mass standards, Analytical |
| | 200 μL to 500 μL | 0.21 μL | Balance. |
| | 500 μL to 1 000 μL | 0.35 μL | PR-CAL-049 |
| | 1 000 μL to 2 500 μL | 0.8 μL | |
| | 2 500 μL to 5 000 μL | 1.6 μL | |
| | 5 000 μL to 10 000 μL | 2.5 μL | |
| | 10 000 μL to 20 000 μL | 5.1 μL | |
| | 20 000 μL to 50 000 μL | 16 μL | |
| | 50 000 μL to 100 000 μL | 28 μL | |
| Tachometer – Optical and | 5 rpm to 99.999 rpm | $(6.5 \times 10^{-4} + 9.4 \times 10^{-5} \text{R}) \text{ rpm}$ | Comparison to Standard |
| Mechanical | 100 rpm to 999.99 rpm | $(4.5 \times 10^{-3} + 9.6 \times 10^{-5} \text{R}) \text{ rpm}$ | Tachometer PLT200 |
| Rotational measurement Centrifuges FO | 1 000 rpm to 9 999.9 | $(3.2 \times 10^{-2} + 9.7 \times 10^{-5} \text{R}) \text{ rpm}$ | PR-CAL-046 |
| Continugos | 10 000 rpm to 99 999 | $(1.3 + 2.3 \times 10^{-6} \text{R}) \text{ rpm}$ | |
| | 100 000 rpm to 200 000 rpm | $(11 + 4.0 \times 10^{-6} \text{R}) \text{ rpm}$ | |





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Mechanical

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|---|--|--|---|
| Viscosity Meters and | 1.033 Pa·s | 0.005 9 Pa·s | Viscosity Standard Fluids |
| Cups FO | 43.670 Pa·s | 0.011 Pa·s | PR-CAL-025 |
| | 67.810 Pa·s | 0.016 Pa·s | |
| Volumetric Ware/ | 1 mL to 20 mL | $(44 + 2.5V) \mu L$ | Gravimetric method |
| Equipment FO | 20 mL to 200 mL | $(55 + 2V) \mu L$ | reference to mass |
| | 200 mL to 1 000 mL | $(282 + 0.8V) \mu L$ | balances and OIML E2 weights PR-CAL-050 |
| | 1 000 mL to 10 000 mL | $(51 + 1V) \mu L$ | TR-CAL-030 |
| | 10 000 mL to 40 000 mL | (-182 + 1.1V) μL | Gravimetric method reference to mass balances and OIML E2 and F1 weights PR-CAL-050 |
| Hydrometers FO | 0.6 SG to 1.25 SG | 0.000 11 SG | Standard Hydrometer PR-CAL-028 |
| Density meters FO | 0.838 3 g/mL 0.981 3 g/mL | 0.000 17 g/mL | Density Standards PR-CAL-028 |

Optical

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|---|--|---|--|
| IR Spectrometers at the listed wavelengths FO | 539.41 cm x 10 ⁻¹ 841.79 cm x 10 ⁻¹ | 1.42 cm x 10 ⁻¹ 0.72 cm x 10 ⁻¹ | Standard reference filter NIST SRM 1921b |
| | 906.63 cm x 10 ⁻¹ | 0.22 cm x 10 ⁻¹ | PR-CAL-062 |
| | 1 028.27 cm x 10 ⁻¹ | 0.18 cm x 10 ⁻¹ | |
| | 1 069.22 cm x 10 ⁻¹ | 0.52 cm x 10 ⁻¹ | |
| | 1 154.50 cm x 10 ⁻¹ | 0.12 cm x 10 ⁻¹ | |
| | 1 582.98 cm x 10 ⁻¹ | 0.08 cm x 10 ⁻¹ | |
| | 1 601.29 cm x 10 ⁻¹ | 0.12 cm x 10 ⁻¹ | |
| | 1 942.97 cm x 10 ⁻¹ | 0.66 cm x 10 ⁻¹ | |
| | 2 849.48 cm x 10 ⁻¹ | 0.30 cm x 10 ⁻¹ | |
| | 3 001.20 cm x 10 ⁻¹ | 0.13 cm x 10 ⁻¹ | |
| | 3 025.99 cm x 10 ⁻¹ | 0.32 cm x 10 ⁻¹ | |
| | 3 060.16 cm x 10 ⁻¹ | 0.17 cm x 10 ⁻¹ | |
| | 3 082.26cm x 10 ⁻¹ | 0.14 cm x 10 ⁻¹ | |





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|---|---|--|--|
| Spectrophotometer to measure | 0.030 Abs | 0.002 4 Abs | Neutral Density Filters |
| At the wavelengths 250 nm to | 0.50 Abs | 0.004 2 Abs | NIST 2031a PR-CAL-038 |
| At the wavelengths 250 nm to 635 nm FO | 1.0 Abs | 0.004 7 Abs | FR-CAL-036 |
| Spectrophotometer to measure | 93 T% | 0.51 T% | |
| Transmittance | 31 T% | 0.31 T% | |
| At the wavelengths 250 nm to 635 nm FO | 10 T% | 0.11 T% | |
| Spectrophotometer to output light | 240 nm to 640 nm | 0.17 nm | Holmium Oxide Glass |
| at fixed point wavelengths FO | | | PR-CAL-038 |

Thermodynamic

| MEASURED INSTRUMENT, QUANTITY OR GAUGE | RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE | CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±) | CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED |
|--|---|---|--|
| Temperature Measurement Devices FO | -200 °C to -21 °C -20 °C to 200 °C 200 °C to 420 °C | 0.031 °C 0.028 °C 0.11 °C | PRT Thermometer PR-CAL-029, PR-CAL-030, PR-CAL-031 Liquid Bath Dry Block |
| Temperature Measurement "System Accuracy", Oven, Heaters, Incubators, Furnaces, Chambers, Moisture Analyzers FO | -200 °C to 1 000 °C | 1.2 °C | Fluke 724 with Thermocouple PR-CAL-042, PR-CAL-047 |
| Equipment to Measure and Output Relative Humidity FO | 5 % RH to 95 % RH | 1.0 % RH | Vaisala HMP75 Humidity Chamber PR-CAL-023 |
| IR Thermometers, Pyrometers FO | 30 °C to 60 °C 60 °C to 100 °C | 1.1 % of reading 1.2 % of reading | Blackbody Calibrator with PRT Thermometer |
| | 100 °C to 500 °C | 1.3 % of reading | PR-CAL-039 |





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Time and Frequency

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|---|---|---|--|
| Equipment to Output Frequency FO | 5 Hz to 99.99 kHz | 0.11 % of reading + 0.02 Hz | Fluke 117 PR-CAL-026 |
| | 100 Hz to 999 Hz | 0.11 % of reading + 0.2 Hz | |
| | 1 kHz to 9.999 kHz | 0.11 % of reading + 2 Hz | |
| | 10 kHz to 99.99 kHz | 0.11 % of reading + 20 Hz | |
| Stopwatch FO | 1 hr to 3 hr | 0.12 s | Master Stopwatch |
| | 3 hr to 10 hr | 0.23 s | PR-CAL-027 |
| Process timers FO | 300 s to 9 000 s | 0.13s | |

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