SCOPE OF ACCREDITATION TO ISO/IEC 17025-2017

GORDON TECHNICAL SALES AND SERVICE, INC.
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CALIBRATION

Valid To: November 30, 2024 Certificate Number: 6456.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations[1]:

I. Dimensional

Parameter/Equipment	Range	CMC[2] (±)	Comments
Internal Diameter[3] – Molds, LA Abrasion Machine	Up to 12 in	0.037 in	Digital calipers, 3-point bore gage with setting ring AASHTO T-312 Annex A, T-245
Linear Measurement[3] – LA Abrasion Machine	Up to 12 in	0.036 in	AASHTO T-96, R-18, & digital calipers

II. Mechanical

Parameter/Equipment	Range	CMC[2] (±)	Comments
Force – Measure[3, 4]	Up to 100 lbf (101 to 1000) lbf (1001 to 10 000) lbf	1 lbf 1.4 lbf 3 lbf	Load cell, ASTM E4, AASHTO T-167, T-245

Parameter/Equipment	Range	CMC[2] (±)	Comments
Gyratory Compactors[3] – Force Height Angle Speed of Rotation	 (0 to 44 483) N (0 to 10) in (0 to 1.30)° (0 to 60) s	 2.6 N 0.037 in 0.037° 0.052 s	Load cell, proving ring, height blocks, timer, & Pine RAM device, AASHTO T344-12 (2020)
Scales & Balances[3]	Up to 1 kg Up to 10 kg Up to 20 kg	0.037 g 0.097 g 0.089 g	AASHTO M-231, Class 1 weights, NIST handbook 44
Vacuum[3] – Pycnometer, Coredry	(0 to 1000) mmHg	± 0.23 mmHg	Torr Gage, AASHTO T 209

III. Thermodynamics

Parameter/Equipment	Range	CMC[2] (±)	Comments
Temperature / General Heating Oven[3]	(0 to 300) °C	0.26 °C	Certified probe, AASHTO R-30
Temperature / Furnace[3]	(300 to 600) °C	0.27 °C	Certified probe, AASHTO T-308

IV. Time & Frequency

Parameter/Equipment	Range	CMC[2] (±)	Comments
Time/Gyratory[3]	(0 to 60) s	0.052 s	Stopwatch, AASHTO T344-12 (2020)

[1] This laboratory offers commercial calibration.

[2] Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement

that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

[3] Field calibration service is available for this calibration. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

[4] The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.

Accredited Laboratory

A2LA has accredited

GORDON TECHNICAL SALES AND SERVICE, INC.

Powhatan, VA

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 4th day of November 2022.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 6456.01
Valid to November 30, 2024

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.