



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ALLOMETRICS, INC.
 2500 Bayport Blvd.
 Seabrook, TX 77586
 Terry Baldwin Phone: 281 474 3329

CALIBRATION

Valid To: July 31, 2017

Certificate Number: 2039.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations¹:

I. Dimensional

Parameter/Equipment	Range	CMC ² (±)	Comments
Calipers ³	Up to 12 in	740 µin	Gage blocks
Outside Micrometers ³	Up to 3 in	72 µin	Gage blocks

II. Mechanical

Parameter/Equipment	Range	CMC ² (±)	Comments
Weighing Scales	100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 25 kg 50 kg 100 kg 200 kg	310 µg 620 µg 1.5 mg 2.1 mg 4.2 mg 10 mg 21 mg 2.9 g 5.8 g 12.0 g 23.0 g	ASTM Class 1 & Class 6 weights

Parameter/Equipment	Range	CMC ² (±)	Comments
Pipettes ³	0.1 µL ≤ 0.2 µL ≤ 0.5 µL ≤ 1.0 µL ≤ 2.0 µL ≤ 5.0 µL ≤ 10 µL ≤ 20 µL ≤ 50 µL ≤ 100 µL ≤ 200 µL ≤ 500 µL ≤ 1000 µL ≤ 2 000 µL ≤ 5 000 µL ≤ 10 000 µL	0.033 µL 0.039 µL 0.047 µL 0.045 µL 0.053 µL 0.081 µL 0.058 µL 0.14 µL 0.13 µL 0.36 µL 0.81 µL 0.6 µL 0.9 µL 3 µL 8 µL 20 µL	Gravimetric method
Precision Scales and Balances ³	(1 to 100) mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 150 g 200 g 300 g 400 g 500 g 600 g 800 g 1 kg 2 kg 5 kg 10 kg	6.9 µg 6.5 µg 6.7 µg 13 µg 25 µg 26 µg 40 µg 60 µg 110 µg 220 µg 270 µg 650 µg 860 µg 1.3 mg 1.5 mg 1.6 mg 1.8 mg 2.1 mg 4.2 mg 10 mg 21 mg	Ultra Class weights & ASTM Class 1 weights



Parameter/Equipment	Range	CMC ² (±)	Comments
Extrusion Plastometers ³ – Dimensional Measurements			
Cylinder Bore Diameter	(0 to 10) mm	5.3 μm	ASTM D1238
Die Diameter	(0 to 3) mm	0.71 μm	
Piston Rod and Land Diameter, Land Length	(0 to 10) mm	2.7 μm	
Temperature	(80 to 370) °C	0.047 °C	
Load	100 g to 31.6 kg	0.1 % of nominal value	
Time	Up to 30 minutes	180 ms	

III. Thermodynamics

Parameter/Equipment	Range	CMC ² (±)	Comments
Temperature Measuring Equipment ³	(-328 to 1202) °F (-200 to 650) °C	0.085 °F 0.047 °C (47 mK)	PRT & indicator

¹ This laboratory offers commercial calibration service and field calibration service.

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 and this laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these calibrations. 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.





Accredited Laboratory

A2LA has accredited

ALLOMETRICS, INC.

Seabrook, TX

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets any additional program requirements in the field of calibration. 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 8 January 2009).



Presented this 30th day of June 2015.

A handwritten signature in black ink, written over a horizontal line.

President & CEO
For the Accreditation Council
Certificate Number 2039.01
Valid to July 31, 2017
Revised June 23, 2017

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