



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005
& ANSI/NCSL Z540-1-1994

QAL-TEK ASSOCIATES, LLC
1107 Wonder Drive
Round Rock, TX 78681
Travis Snowder Phone: 208 523 5557

CALIBRATION

Valid To: January 31, 2017

Certificate Number: 2521.02

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
Micrometers ³	Up to 1 in	150 µin	Micrometer master
Calipers ³	Up to 6 in (6 to 12) in	380 µin 410 µin	Caliper master
Dial Indicators ³	Up to 1 in	200 µin	Indicator calibrator

II. Ionizing Radiation and Radioactivity

Parameter/Equipment	Range	CMC ² (±)	Comments
Nuclear Density Gauges, Fixed Points – Density ³	110.9 lb/ft ³ 137.7 lb/ft ³ 164.4 lb/ft ³	0.59 lb/ft ³ 0.72 lb/ft ³ 1.1 lb/ft ³	ASTM 6938 and ASTM D7759/D7759M density blocks
Nuclear Density Gauges – Moisture ³	(0 to 30) lb/ft ³	0.65 lb/ft ³	ASTM D 6938 and ASTM D7759/D7759M Moisture block

III. Mechanical

Parameter/Equipment	Range	CMC ² (±)	Comments
Force ⁴ – Measure Compression	(50 to 2000) lbf (2000 to 25 000) lbf (25 000 to 50 000) lbf (50 000 to 500 000) lbf	0.058 % of rdg 0.17 % of rdg 0.20 % of rdg 0.14 % of rdg	ASTM E4 using load cells
Pressure ³ – Measure			
Pneumatic	(0 to 300) psig	0.30 psig	Digital pressure tester
Absolute	(0 to 775) mmHg	0.91 mmHg	Digital manometer
Scales and Balances ³	(1 to 200) g 200 g to 1 kg (1 to 5) kg (5 to 30) kg (25 to 200) lb	0.59 mg 2.9 mg 14 mg 29 mg 0.029 lb	Class 1 weights, Class F weights

IV. Thermodynamic

Parameter/Equipment	Range	CMC ² (±)	Comments
Ovens ³	(0 to 200) °C (200 to 600) °C	2.6 °C 4.6 °C	Thermocouples

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.

⁴ The laboratory offers this calibration in the field only.



American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

QAL-TEK ASSOCIATES, LLC

Round Rock, 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 the requirements of ANSI/NCSL Z540-1-1994 and 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 15th day of April 2015.



A handwritten signature in black ink, appearing to read "Peter Meyer", written over a horizontal line.

President & CEO
For the Accreditation Council
Certificate Number 2521.02
Valid to January 31, 2017

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