



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

QAL-TEK ASSOCIATES  
3998 Commerce Circle  
Idaho Falls, ID 83401  
H. Dale Snowder Phone: 208 523 5557

CALIBRATION

Valid To: January 31, 2013

Certificate Number: 2521.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1</sup>:

I. Dimensional

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Micrometers <sup>3</sup>	Up to 1 in	130 µin	Micrometer master
Calipers <sup>3</sup>	Up to 6 in	860 µin	Caliper master
Dial Indicators <sup>3</sup>	Up to 1 in	400 µin	Indicator calibrator

II. Ionizing Radiation and Radioactivity

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Radiation Protection/Health Physics Instruments – Gamma Cs <sup>137</sup>	(40 to 1000) µRem/hr	5.7 % of range	Mini gamma range
	1 mRem/hr to 464 Rem/hr	3.7 % of range	Irradiator

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Nuclear Density Gauges, Fixed Points – Density	111 lb/ft <sup>3</sup> 137 lb/ft <sup>3</sup> 169 lb/ft <sup>3</sup>	0.5 lb/ft <sup>3</sup> 0.7 lb/ft <sup>3</sup> 1 lb/ft <sup>3</sup>	ASTM D 6938 density blocks
Nuclear Density Gauges – Moisture	(0 to 31) lb/ft <sup>3</sup>	1.1 lb/ft <sup>3</sup>	ASTM D 6938 moisture block

### III. Mechanical

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Force <sup>4</sup> – Measure Compression	(275 to 3000) lbf (2480 to 30 000) lbf (4040 to 50 000) lbf (34 020 to 500 000) lbf	0.24 % of rdg 0.24 % of rdg 0.26 % of rdg 0.21 % of rdg	ASTM E4 using load cells
Scales and Balances <sup>4</sup>	(1 to 30) g Up to 200 g Up to 500 g Up to 5 kg  (25 to 200) lb	0.064 mg 0.097 mg 0.18 mg 2.7 mg  0.028 lb	Class 1 weights Class F weights NIST handbook 44

<sup>1</sup> This laboratory offers commercial calibration service and field calibration service.

<sup>2</sup> Calibration and Measurement Capability (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. Calibration and Measurement Capabilities 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.

<sup>3</sup> 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.

<sup>4</sup> The laboratory offers this calibration in the field only.



World Class Accreditation

The American Association for Laboratory Accreditation

# Accredited Laboratory

A2LA has accredited

## QAL-TEK ASSOCIATES

*Idaho Falls, ID*

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 10<sup>th</sup> day of April 2012.



  
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Peter Meyer

President & CEO  
For the Accreditation Council  
Certificate Number 2521.01  
Valid to January 31, 2013

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