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

INSTRU-MET CORPORATION
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CALIBRATION

Valid To: December 31, 2011 Certificate Number: 1377.01

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

I. Mechanical

Parameter/Equipment	Range	CMC[2, 4] (±)	Comments
Force Verification of Testing Machines[3] – (Compression/Tension)	(0.0022 to 100) lbf (20 to 500) lbf (220 to 2500) lbf (1100 to 10 000) lbf (3000 to 50 000) lbf (5000 to 118 000) lbf	0.05 % of reading 0.11 lbf 0.53 lbf 2 lbf 11 lbf 26 lbf	ASTM E4 with: Dead weights Load cells
Extensometers[3] – Displacement/Strain Measuring Devices	(0 to 2) in (2 to 20) in	36 µin (33 + 4.5*L*) µin	ASTM E83 with: Boeckler micrometer system Gage blocks

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Parameter/Equipment	Range	CMC[2] (±)	Comments
Testing Machine Crosshead Speed[3]	(0.002 to 50) in/min	36 µin (displacement) 0.006 s (time)	Linear encoder with glass scale Timer Linear displacement over time per manufacturer's specifications and WI-1007

II. Thermodynamics

Parameter/Equipment	Range	CMC[2] (±)	Comments
Environmental Chamber Temperature Indicating Devices[3]	(0 to 300) °C	0.1 °C	By comparison with PRT per manufacturer's specifications and WI-1006

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

[2] 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.

[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] In the statement of CMC, L is the numerical value of the nominal length of the device measured in inches.

The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

INSTRU-MET CORPORATION

Union, NJ

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 13th day of July 2010.

President & CEO
For the Accreditation Council
Certificate Number 1377.01
Valid to December 31, 2011

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