



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc., has assessed the Laboratory of:

American Calibration & Testing Company, Inc.
34 Forest Park Avenue
North Billerica, MA 01862

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2005

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated January 2009):

Calibration of Force, Extensometer, Pressure, and Temperature Measurement Equipment
(As detailed in the supplement)

Such testing and/or calibration services shall only be offered at or from the address given above. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

The validity of this certificate is mandated through ongoing surveillance.

Tracy Szerszen
 President/Operations Manager

Perry Johnson Laboratory
 Accreditation, Inc. (PJLA)
 26555 Evergreen, Suite 1325
 Southfield, Michigan 48076

Initial Accreditation Date:
 August 21, 2007

Accreditation No.:
 59887

Issue Date:
 August 20, 2009

Certificate No.:
 L09-82

Expiration Date:
 August 19, 2011

Page No.:
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Certificate of Accreditation: Supplement

American Calibration & Testing Company, Inc.
34 Forest Park Avenue
North Billerica, MA 01862

Accreditation is granted to this facility to perform the following calibrations:

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	REMARKS
Extensometer	0.001 in to 0.02 in	0.001 4 in	Micrometer/ Comparator ASTM E3-06

Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	REMARKS
Type K Thermocouple	-190 °C to 189 °C	1.9 °C	Heise Thermocouple Module
	190 °C to 489 °C	4.9 °C	
	490 °C to 799 °C	8.0 °C	

Mass, Force, and Weighing Devices

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	REMARKS
Compression	44.482 N to 2.67 kN (10 lbf to 600 lbf)	0.23 % of load	ASTM E74-07 BLH LCc II Indicator W/ 600, 3K, 12K, 30K, 240K, 720K
	222.4111 N to 13.34 kN (50 lbf to 3 000 lbf)	0.22 % of load	
	889.644 N to 53.378 kN (200 lbf to 12 000 lbf)	0.24 % of load	
	2.224 kN to 133.446 kN (500 lbf to 30 000 lbf)	0.24 % of load	
	26.69 kN to 1.067 MN (6 000 lbf to 240 000 lbf)	0.18 % of load	
	88.96 kN to 3 202.72 MN (20 000 lbf to 720 000 lbf)	0.14 % of load	
Tension	44.482 N to 2.668 kN (10 lbf to 600 lbf)	0.18 % of load	ASTM E74-07 BLH LCc II Indicator W/ 600, 3K, 30K
	355.858 N to 13.34 kN (80 lbf to 3 000 lbf)	0.25 % of load	
	2.224 kN to 133.446 kN (500 lbf to 30 000 lbf)	0.23 % of load	



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Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	REMARKS
Pressure	0.01 PSI to 60 PSI	0.6 PSI	Heise HQ52-60 PSIG
	0.1 PSI to 500 PSI	5 PSI	HQS-500 PSIG
	1 PSI to 10 000 PSI	100 PSI	HQS-10.000 PSIG
Vacuum	0.1 inHg to -28 inHg	0.28 inHg	Heise HQ52-60

1. Remarks: This column shall include pertinent information about the calibration of the Measured Instrument or parameter. The information should include the type of standards used and any pertinent information about the measurement method. This column is not to be used for commercial advertisement of laboratory services.