



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

PTC METROLOGY
 2301 Federal Avenue
 Los Angeles, CA 90064
 John Marcus, PhD. Phone: 310 478 1134

CALIBRATION

Valid To: March 31, 2026

Certificate Number: 1896.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1,5}:

I. Mechanical

Parameter/Equipment	Range	CMC ² (±)	Comments
Durometer Calibration –			
Indentor Shape			
Diameter	(0.045 to 0.055) in (0.0897 to 0.0977) in (0.030 to 0.032) in	400 μin 400 μin 400 μin	ASTM D2240, comparator overlay
Radius	(0.0249 to 0.251) in R (0.0448 to 0.0488) in R (0.0035 to 0.0045) in R	400 μin 400 μin 400 μin	R = Radius
Angle	(34.75 to 35.25) degrees (29.5 to 30.5) degrees	0.08 degrees 0.08 degrees	
Indentor Extension	(0.096 to 0.1) in (0.048 to 0.05) in (0.298 to 0.302) in	0.2 duro points 0.2 duro points 0.2 duro points	Gage blocks
Readout Linearity	(0.01 to 0.3) in	0.2 duro points	Gage blocks
Spring Calibration – Force	(0 to 821) gf (0 to 4534) gf (0 to 9112) gf (0 to 142) gf	0.2 duro points 0.2 duro points 0.2 duro points 0.2 duro points	Durocalibrator, electronic scale, load cell

Parameter/Equipment	Range	CMC ^{2,3,4} (\pm)	Comments
Durometer Calibrator	(0 to 821) gf (0 to 4534) gf	0.2 duro points 0.2 duro points	Load cell

II. Thermodynamics

Parameter/Equipment	Range	CMC ^{2,4} (\pm)	Comments
Temperature – Measuring Instruments	(268.2 to 313.2) K (-5 to 40) °C	130 mK	PTC cold calibrator
Temperature Surface	(293.2 to 673.2) K (20 to 400) °C	130 mK	Hart 3125 w/ Hart 1502A
	(673.2 to 798.2) K (400 to 525) °C	200 mK	PTC hot calibrator

¹ This laboratory offers commercial 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. CMC's 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 In the statement of CMC, R is the numerical value of the resolution of the device.

⁴ The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.

⁵ This scope meets A2LA's P112 *Flexible Scope Policy*.



Accredited Laboratory

A2LA has accredited

PTC METROLOGY

Los Angeles, CA

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. 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 April 2017).



Presented this 29th of February 2024.

A blue ink signature of Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1896.01
Valid to March 31, 2026

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