



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELCOMETER, INC.  
6900 Miller Rd.  
Warren, MI 48092  
Deborah Piatt Phone: 248 650 0500

CALIBRATION

Valid To: April 30, 2022

Certificate Number: 5908.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1,4</sup>:

I. Chemical

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Soluble Salt Profilers	Nominal 0.5 µg/cm <sup>2</sup> Nominal 2 µg/cm <sup>2</sup> Nominal 4.7 µg/cm <sup>2</sup> Nominal 10 µg/cm <sup>2</sup> Nominal 18 µg/cm <sup>2</sup> Nominal 47 µg/cm <sup>2</sup>	0.0059 µg/cm <sup>2</sup> 0.029 µg/cm <sup>2</sup> 0.01 µg/cm <sup>2</sup> 0.034 µg/cm <sup>2</sup> 0.037 µg/cm <sup>2</sup> 0.083 µg/cm <sup>2</sup>	Verification tiles

II. Dimensional

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Profilometers	Nominal 5 mil Nominal 10 mil Nominal 15 mil Nominal 20 mil	0.08 mil 0.15 mil 0.20 mil 0.37 mil	Foil, shims – outside micrometer
Ultrasonic Thickness Gauges	0.25 in 0.50 in 0.75 in 1.00 in	0.0011 in 0.0011 in 0.0011 in 0.0016 in	Step blocks, outside micrometer

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Coating Thickness Gages	Nominal 1 mil Nominal 5 mil Nominal 10 mil Nominal 20 mil Nominal 40 mil Nominal 120 mil Nominal 150 mil Nominal 200 mil Nominal 400 mil Nominal 600 mil Nominal 1000 mil	0.043 mil 0.071 mil 0.16 mil 0.24 mil 0.46 mil 1.5 mil 1.8 mil 2.3 mil 4.5 mil 6.9 mil 14 mil	DFT standards, outside micrometer

## II. Electrical – DC/Low Frequency

Parameter/Equipment	Range	CMC <sup>2,3</sup> (±)	Comments
DC Voltage – Measure	(9 to 90) V  5 kV 15 kV 25 kV	0.037 V  0.052 kV 0.15 kV 0.25 kV	Digital multimeter  High voltage probe, digital multimeter

## IV. Mechanical

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Pull-off Adhesion Gage	(100 to 3200) psi  (2 to 25) MPa	17 psi  0.12 MPa	Digital adhesion verification unit

## V. Optical Quantities

Parameter/Equipment	Range	CMC <sup>2,5</sup> (±)	Comments
Gloss – Measuring Equipment	(15 to 100) GU 60°	0.58 GU	Gloss tiles

---

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

<sup>2</sup> 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.

<sup>3</sup> The stated measured values are determined using the indicated instrument (see Comments). This capability is suitable for the calibration of the devices intended to measure or generate the measured value in the ranges indicated. CMCs are expressed as either a specific value that covers the full range or as a percent or fraction of the reading plus a fixed floor specification.

<sup>4</sup> This scope meets A2LA's *P112 Flexible Scope Policy*.

<sup>5</sup> 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.



## *Accredited Laboratory*

A2LA has accredited

**ELCOMETER, INC.**

*Warren, MI*

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 9<sup>th</sup> day of November 2020.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 5908.01  
Valid to April 30, 2022

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