SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY ME LIMITED ABU DHABI
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CALIBRATION

Valid To: February 28, 2027 Certificate Number: 5669.23

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with R205 – A2LA's Calibration Program Requirements), accreditation is granted to this laboratory to perform the following calibrations[1, 7]:

I. Dimensional

Parameter/Equipment	Range	CMC[2] (±)	Comments
Extensometers[3] – Displacement Class 0.2 from 25 mm Class 0.5 from 10 mm Class 1 from 5 mm Class 2 from 5 mm Class A from 15 mm Class B-1 from 1 mm Class B-2 from 1 mm Class C from 1 mm	(0.01 to 50) mm	1.8 µm	BS EN ISO 9513 ASTM E83
Gauge Length	Up to 300 mm (300 to 600) mm	0.07 mm 1 mm	BS EN ISO 9513 & ASTM E83
Micrometer External Length[3]	Up to 25 mm	2.0 µm	JIS B 7502

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Parameter/Equipment	Range	CMC[2, 6] (±)	Comments
Calipers[3] – Outside & Inside Length	Up to 300 mm	21 µm	JIS B 7507
Dial Indicators[3]	Up to 25 mm	3.2 µm	JIS B 7503 & ISO 463
Linear – Measure[3] Feeler Gauges	Up to 25 mm	3.1 µm	Micrometer
Length – Measuring Equipment	Up to 300 mm	0.07 mm	Caliper
	Up to 1000 mm	1.0 mm	Steel rule

II. Mechanical

Parameter/Equipment	Range	CMC[2, 5, 6] (±)	Comments
Force – Universal Testing Machines[3]			
Class 0.5, 1, 2, & 3	(0.20 to 500) kN	0.26 %	BS EN ISO 7500-1 & ASTM E4
Class 1, 2, & 3	0.20 kN to 3 MN	0.28%	BS EN ISO 7500-1 & ASTM E4
Force – Measure[3] Concrete Cube Testing Machines			
Class 0.5, 1, 2, & 3	(0.20 to 500) kN	0.26 %	BS EN ISO 7500-1
Class 1, 2, & 3	0.20 kN to 3 MN	0.28%	BS EN ISO 7500-1
Platens & Spacing Blocks			
Flatness	(0.01 to 0.05) mm	0.01 mm	BS EN 12390-4 & BS 1881-115 (superseded)[4]
Thickness & Diameters	(10 to 300) mm	0.07 mm	

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Parameter/Equipment	Range	CMC[2, 5, 6] (±)	Comments
Mass – Non-Automatic Weighing Machines[3]	100 g 200 g 500 g 1 kg 3 kg 6 kg 10 kg 15 kg 20 kg 30 kg 60kg 100 kg	0.25 mg 0.35 mg 0.90 mg 1.80 mg 4.20 mg 11 mg 60 mg 74 mg 366 mg 493 mg 5.85 g 5.95 g	OIML class E2 Class F2 Class F1 Class M2 Class M1 ASTM E898
Force – Measuring Equipment[3] Load Rings & Load Cells	 (0.20 to 5) kN (0.20 to 100) kN	 0.23% 0.25%	 BS 1377-1

III. Thermodynamics

Parameter/Equipment	Range	CMC[2, 6] (±)	Comments
Temperature – Measure[3] Thermometer, Temperature Indicating Systems/Environmental Monitoring Sensors (Thermocouples)	(-10 to 200) °C	0.23 °C	EL-M-OP-CAL-MDO032
Temperature – Measure[3], Climate Chamber Mapping	(- 30 to 200) °C	0.34 °C	EL-M-OP-CAL-MDO031 ASTM E145

IV. Time & Frequency

Parameter/Equipment	Range	CMC[2] (±)	Comments
Timer[3]	Up to 60 m	740 ms	NIST HB 690-12

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[1] This laboratory offers commercial calibration service and field 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] Field calibration service is available for this calibration. 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] Calibration also includes the alignment and restraint of the upper machine platen required by BS EN 12390-4:2000 and BS 1881: part 115-1986 (superseded).

[5] In the statement of CMC, percentages are to be read as percent of reading, unless noted otherwise.

[6] 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.

[7] This scope meets A2LA's *P112 Flexible Scope Policy.*

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Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY ME LIMITED ABU DHABI

Abu Dhabi, UAE

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 3rd day of April 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5669.23
Valid to February 28, 2027
Revised April 15, 2025

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

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