



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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CALIBRATION

Valid To: February 28, 2025

Certificate Number: 5669.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1, 7}:

I. Dimensional

Parameter/Equipment	Range	CMC ² (±)	Comments
Length – Extensometers ³ 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	1.7 µm	BS EN ISO 9513 ASTM E83
Micrometer External ³	Up to 25 mm	2.0 µm	JIS B 7502
Calipers ³	Up to 300 mm	21 µm	JIS B 7507
Dial Gauges ³	Up to 25 mm	1.2 µm	JIS B 7503 and ISO 463, errors of indication, repeatability and hysteresis only

Parameter/Equipment	Range	CMC ^{2, 6} (±)	Comments
Linear – Measure ³	Up to 25 mm using micrometer	0.04 mm	Linear measurement using micrometer, caliper, or steel rule
	Up to 300 mm using caliper	0.07 mm	
	Up to 1000 mm using steel rule	1.0 mm	

II. Mechanical

Parameter/Equipment	Range	CMC ^{2, 5, 6} (±)	Comments
Force – Universal Testing Machines ³	Class 0.5, 1, 2, and 3	(0.20 to 500) kN	0.27 %
	Class 1, 2, and 3	0.20 kN to 3 MN	0.35 %
Concrete Cube Testing Machines ³	Class 0.5, 1, 2, and 3	(0.20 to 500) kN	0.27 %
	Class 1, 2, and 3	0.20 kN to 3 MN	0.35 %
	Flatness of Platens and Spacing Blocks	(10 to 300) mm	0.01 mm
Force – Measuring Equipment ³	(0.20 to 100) kN	0.33 %	BS EN ISO 7500-1 and ASTM E4 BS EN ISO 7500-1 and ASTM E4 BS EN ISO 7500-1 BS EN ISO 7500-1 ⁴ BS EN 12390-4 and BS 1881-115 (superseded) ⁴ BS 1377-1

Parameter/Equipment	Range	CMC ² (±)	Comments
Mass – Non-Automatic Weighing Machines ³	100 g	0.18 mg	Weights are available in OIML class. E2 from 1 mg to 500 mg, max grouped load 1 g. F2 from 1 g to 10 kg, max grouped load 15 kg. M1 20 kg max grouped load 100 kg. Other loads within the overall listed range may also be used. Weighing machines can be calibrated to ASTM E898 r
	200 g	0.35 mg	
	500 g	0.90 mg	
	1 kg	2.7 mg	
	2 kg	3.6 mg	
	5 kg	9.0 mg	
	10 kg	28 mg	
	20 kg	360 mg	
	50 kg	730 mg	
	100 kg	1.3 g	







Accredited Laboratory

A2LA has accredited

ELEMENT METALS SERVICES
MEL MD



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