



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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CALIBRATION

Valid To: January 31, 2018

Certificate Number: 3958.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations¹:

I. Dimensional Testing¹

Parameter/Equipment	Range	CMC ² (±)	Comments
Copper Slugs ⁴ –			
Length	Up to 25 mm	6.9 µm	Video measuring machine, gauge pin, mass scale
Angle	0° to 360°	0.04°	
ID/OD	Up to 1 mm	2.9 µm	
Glow Wire Loop ⁴ –			
Length	Up to 200 mm	16 µm	Video measuring machine, gauge pin
Radius	Up to 100 mm	15 µm	
ID/OD	Up to 1 mm	2.9 µm	

II. Mechanical

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
<p>Accessibility Probe Testers –</p> <p>Length</p> <p>Angle</p> <p>Radius</p> <p>Force</p>	<p>Up to 25 mm</p> <p>Up to 150 mm</p> <p>(>150 to 200) mm</p> <p>(>200 to 450) mm</p> <p>(>450 to 3000) mm</p> <p>0° to 360°</p> <p>Up to 100 mm</p> <p>Up to 100 N</p>	<p>6.9 μm</p> <p>15 μm</p> <p>16 μm</p> <p>0.62 mm</p> <p>0.75 mm</p> <p>0.04°</p> <p>15 μm</p> <p>0.39 N</p>	<p>Video measuring machine, micrometer, caliper, steel rule, tape measure, protractor, gauge pin, force gauge</p>
<p>Ingression Protection (IP) & Environmental Testers –</p> <p>Flow</p> <p>Mass</p> <p>Time</p> <p>ID</p> <p>Length</p> <p>Angle</p> <p>Radius</p>	<p>(9.5 to 10.5) L/m</p> <p>(11.875 to 13.125) L/m</p> <p>(95 to 105) L/m</p> <p>Up to 500 g</p> <p>(>500 to 10 000) g</p> <p>Up to 3600 s</p> <p>(14.7 to 15.3) mm</p> <p>Up to 25 mm</p> <p>Up to 150 mm</p> <p>(>150 to 200) mm</p> <p>(>200 to 450) mm</p> <p>(>450 to 3000) mm</p> <p>Up to 360°</p> <p>Up to 100mm</p>	<p>0.36 L/m</p> <p>0.45 L/m</p> <p>3.6 L/m</p> <p>0.31 g</p> <p>2.0 g</p> <p>0.76 s</p> <p>2.9 μm</p> <p>6.9 μm</p> <p>15 μm</p> <p>16 μm</p> <p>0.62 mm</p> <p>0.75 mm</p> <p>0.04°</p> <p>15 μm</p>	<p>Flow meter, video measuring machine, scale, timer, gauge pin, micrometer, caliper, steel rule, tape measure, protractor</p>



Parameter/Equipment	Range	CMC ² (±)	Comments
Impact and Sharp Edge Testers –			
Energy	Up to 1 J	0.006 J	Impact hammer calibrator, force gauge, scale, video measuring machine, micrometer, caliper, steel rule, tape measure
Force	Up to 100 N	0.39 N	
Length	Up to 25 mm	6.9 µm	
	Up to 150 mm	15 µm	
	(>150 to 200) mm	16 µm	
	(>200 to 450) mm	0.62 mm	
	(>450 to 3000) mm	0.75 mm	
Radius	Up to 100 mm	15 µm	
Mass	Up to 500 g	0.31 g	
	(>500 to 10 000) g	2.0 g	
Impact Hammer Calibrator	Up to 1 J	0.006 J	Mass scale, steel rule
Flammability Glow Wire Testers –			
Temperature	Up to 1000 °C	3.8 °C	Standard reference material (SRM, Ag 95.95), timer, scale
Time	Up to 3600 s	0.76 s	
Mass	Up to 500 g	0.31 g	
Copper Slugs –			
Mass	Up to 10 g	0.31 g	Mass scale

¹ This laboratory offers commercial calibration and dimensional testing 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. 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.

³ In the statement of CMC, L is Liter.

⁴ This test is not equivalent to that of a calibration.

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