Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

0688

Accredited to ISO/IEC 17025:2017

SDL Atlas Ltd

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Calibration performed by the Organisations at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address 1B, Building B Junxiang Da Mansion No. 9 Zhongshan Yuan Road Nanshan Shenzhen 518052 P.R.C.	**Local contact** Mr Andy Wan	Force Textile	P

Site activities performed away from the locations listed above:

Location details		Activity	Location code
Customers' sites or premises The customer's sites or premises must be suitable for the nature of the particular calibrations undertaken and will be subject of contract review arrangements between the laboratory and the customer	**Local contact** Mr Andy Wan	Force Textile	S

Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
TEXTILE TESTING MACHINES			Unless otherwise indicated. Physical measurement of mass, time, temperature, pressure and linear dimensions in accordance with multiple industry standards, manufacturers specifications and customer requirements.	
Martindale abrasion machines				
Mass	100 g to 1000 g 1000 g to 3000 g	0.20 g 0.40 g		P & S
Linear	0.5 mm to 1.5 mm 1.5 mm to 130 mm	0.01 mm 0.050 mm		
Speed (specific value)	47.5 rpm	0. 17 rpm		
Crockmeters				
Force	1 N to 11 N	0.030 N		
Linear	5 mm to 110 mm (stroke) 5 mm to 15 mm (peg diameter)	0.80 mm 0.020 mm		
Pilling Tester (Box & Drum)				
Linear	5 mm to 320 mm	0.80 mm		
Speed (specific value)	60 rpm	0.20 rpm		
Pilling Tester (Random)				
Linear	5 mm to 160 mm	1.0 mm		
Speed	1 rpm to 5000 rpm	2.0 rpm		
Time	1 s to 300 s	0.30 s		
Burst Strength Tester				
Linear	0 mm to 100 mm	0.070 mm		
Time	1 s to 60 s	0.30 s		
Pressure	0 kPa to 1000 kPa 1000 kPa to 7000 kPa	2.0 kPa 8.5 kPa		
Wascator				
Temperature	25 °C to 90 °C	0.80 °C		
Linear	50 mm to 200 mm	1.0 mm		
Spin speed	500 rpm to 800 rpm	0.70 rpm		
Wash speed	52 rpm	0.30 rpm		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
TEXTILE TESTING MACHINES (continued)				
Digital Tumble Dryers				P & S
Temperature	From 25 °C up to 90 °C	0.80 °C		
Time	10 s to 600 s	0.50 s		
Linear	550 mm to 1000 mm	2.0 mm		
Volume	80 L to 120 L	0.90 L		
Rotawash, Gyrowash and Washwheels				
Linear	100 mm to 175 mm	0.80 mm		
Temperature	30 °C to 95 °C	0.80 °C		
Timer (specific value)	600 s	0.30 s		
Speed (specific value)	40 rpm	0.70 rpm		
Capacity	500 ml to 600 ml	10 ml		
Sample cutters				
Diameter of cut sample	20 mm to 145 mm	0.15 mm		
Incubators up to 120 litres				
Temperature	35 °C to 41 °C	0.50 °C		
Perspirometer				
Mass	100 g to 5100 g	0.50 g		
Hydrostatic Head Tester				
Rate of increase in water pressure (Specific values)	10 cmH_2O/minute 60 cmH_2O/minute	0.12 cmH_2O/minute 0.25 cmH_2O/minute		
Pressure	0 cmH_2O to 1500 cmH_2O 1500 cmH_2O to 3500 cmH_2O	2.0 cmH_2O 4.0 cmH_2O		
Linear	0 mm to 140 mm	0.05 mm		
Flameability tester				
Linear	1 mm to 200 mm 200 mm to 800 mm	0.060 mm 1.5 mm		
Time	1 s to 20 s	0.20 s		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
TEXTILE TESTING MACHINES (continued)				
Angle	10 ° to 90 °	0.3 °		
Mass	10 g to 500 g	0.25 g		
Reference Standard Washer including digital programmeable machines				
Temperture	10 °C to 90 °C	0.80 °C		
Capacity	10 L to 80 L	0.50 L		
Time	60 s to 1 200 s	3.0 s		
Agitation speed	10 to 200 strokes per minute	1.8 strokes per minute		
Spin speed	300 rpm to 800 rpm	2.5 rpm		
FORCE				
Universal Testing Machines				P & S
Verification and calibration of the force measuring system by force proving instruments in tension and compression	From 0.15 kN up to 50 kN for Class 0.5, 1, 2 and 3 machines to BS EN ISO 7500-1:2018	0.22 %		
Verification and calibration of the force measuring system by calibrated masses in tension and compression	From 1 N up to 150 N for Class 0.5, 1., 2 and 3 machines to BS EN ISO 7500-1:2018	0.10 %		
Cross head displacement	50 mm to 600 mm	0.35 %		
Cross head speed	100 mm/min to 600 mm/min	0. 70 %		
END				

Appendix - Calibration and Measurement Capabilities

Introduction

The definitive statement of the accreditation status of a calibration laboratory is the Accreditation Certificate and the associated Schedule of Accreditation. This Schedule of Accreditation is a critical document, as it defines the measurement capabilities, ranges and boundaries of the calibration activities for which the organisation holds accreditation.

Calibration and Measurement Capabilities (CMCs)

The capabilities provided by accredited calibration laboratories are described by the Calibration and Measurement Capability (CMC), which expresses the lowest measurement uncertainty that can be achieved during a calibration. If a particular device under calibration itself contributes significantly to the uncertainty (for example, if it has limited resolution or exhibits significant non-repeatability) then the uncertainty quoted on a calibration certificate will be increased to account for such factors.

The CMC is normally used to describe the uncertainty that appears in an accredited calibration laboratory's schedule of accreditation and is the uncertainty for which the laboratory has been accredited using the procedure that was the subject of assessment. The measurement uncertainty is calculated according to the procedures given in the GUM and is normally stated as an expanded uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of $k = 2$. An accredited laboratory is not permitted to quote an uncertainty that is smaller than the published measurement uncertainty in certificates issued under its accreditation.

Expression of CMCs - symbols and units

It should be noted that the percentage symbol (%) represents the number 0.01. In cases where the measurement uncertainty is stated as a percentage, this is to be interpreted as meaning percentage of the measurand.
Thus, for example, a measurement uncertainty of 1.5 % means $1.5 \times 0.01 \times q$, where q is the quantity value.

The notation Q[a, b] stands for the root-sum-square of the terms between brackets: $Q[a, b] = [a^2 + b^2]^{1/2}$