

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

|  |   |  |
|--|---|--|
| <br><b>UKAS</b><br>CALIBRATION<br><br><b>27401</b><br><br>Accredited to<br>ISO/IEC 17025:2017 | <b>Metalitest Limited</b>   |  |
|  | Issue No: 004    Issue date: 14 March 2025                            |  |
|  | Suite 2a Blackthorn House<br>St Paul's Square<br>Birmingham<br>B3 1RL | Contact: Michael Wilson<br>Tel: +44 (0)121 751 2112<br>E-Mail: service@metalitest.com<br>Website: www.metalitest.com |
| Calibration performed by the Organisation at the locations specified   |   |  |

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

| Location details  | Activity            | Location code |
|---|---------------------|---------------|
| <b>Address</b><br>Metalitest Limited<br>Suite 2a Blackthorn House<br>St Paul's Square<br>Birmingham<br>B3 1RL<br><br><b>Local contact</b><br>Michael Wilson<br>Tel: +44 (0)121 751 2112<br>E-Mail: service@metalitest.com | Administrative only | A             |

#### Site activities performed away from the locations listed above:

| Location details   | Activity | Location code |
|--|----------|---------------|
| The customer's site or premises must be suitable for the nature of the particular calibrations undertaken and will be the subject of contract review arrangements between the laboratory and the customer. | Force    | B             |



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Calibration and Measurement Capability (CMC)

| Measured Quantity<br>Instrument or Gauge  | Range  | Expanded Measurement<br>Uncertainty ( $k = 2$ ) | Remarks | Location<br>Code |
|---|--|---|---------|------------------|
| <b>FORCE</b>  |  |   |         | B                |
| UNIVERSAL MATERIALS<br>TESTING MACHINES   |  |   |         |                  |
| Verification and calibration of<br>the force measuring system by<br>force proving instruments in<br>tension         | From 0.02 kN up to 1080 kN<br>for<br>Class 0.5, 1, 2 and 3<br>machines to<br>BS EN ISO 7500-1:2018<br>and ASTM E4-24 | 0.23 %  |         | B                |
|   | From 1080 kN up to 3000<br>kN for<br>Class 1, 2 and 3 machines<br>to<br>BS EN ISO 7500-1:2018<br>and ASTM E4-24      | 0.30 %  |         |                  |
| Verification and calibration of<br>the force measuring system by<br>force proving instruments in<br>compression     | From 0.02 kN up to 1080 kN<br>for<br>Class 0.5, 1, 2 and 3<br>machines to<br>BS EN ISO 7500-1:2018<br>and ASTM E4-24 | 0.23 %  |         | B                |
|   | From 1080 kN up to 5000<br>kN for<br>Class 1, 2 and 3 machines<br>to<br>BS EN ISO 7500-1:2018<br>and ASTM E4-24      | 0.30 %  |         |                  |
| Verification and calibration of<br>the force measuring system by<br>calibrated masses in tension<br>and compression | From 0.1 N up to 100 N for<br>Class 0.5, 1, 2 and 3<br>machines to<br>BS EN ISO 7500-1:2018<br>and ASTM E4-24        | 0.087 %   |         | B                |
| <b>CREEP TESTING MACHINES</b>   |  |   |         | S                |
| Verification of the applied load<br>using force proving<br>instruments  | 10 kN to 500 kN<br>For Class 0.5, 1 and 2<br>machines to<br>BS EN ISO 7500-2:2006<br>and ASTM E4-24                  | 0.23 %  |         |                  |



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| Measured Quantity<br>Instrument or Gauge         | Range  | Expanded Measurement<br>Uncertainty ( $k = 2$ )              | Remarks | Location<br>Code |
|--|--|--|---------|------------------|
| <b>LENGTH</b>                                    |  |  |         |                  |
| Extensometers                                    | As to BS EN ISO 9513:2012<br>and ASTM E83-23   |  |         | B                |
|  | Minimum Gauge Length 4.0<br>mm for class 0.5<br>11 mm for class 0.2                                      | 7.0 $\mu$ m  |         |                  |
|  | Displacements<br>0.01 mm to 1.0 mm<br>1.0 mm to 2.5 mm<br>2.5 mm to 10 mm<br>10 mm to 50 mm              | 0.34 $\mu$ m<br>0.63 $\mu$ m<br>2.39 $\mu$ m<br>5.51 $\mu$ m |         | B                |
|  | As to BS EN ISO 5893:<br>2019 A1 2020 (Long Travel)<br>Class C, D and E                                  |  |         |                  |
|  | Displacements<br>1 mm to 1200 mm   | 0.04mm   |         |                  |
| Testing machine crosshead<br>displacement        | As to BS EN ISO 5893:<br>2019 A1 2020<br>1 mm to 100 mm<br>100 mm to 300 mm                              | 0.067 mm<br>0.17 mm  |         | B                |
| Testing machine crosshead<br>speed               | As to BS EN ISO 5893:<br>2019 A1 2020<br>Up to 300 mm/min  | 0.25 %   |         | B                |
| <b>IMPACT TESTING<br/>MACHINES</b>               |  |  |         |                  |
| Metal Impact testing machines<br>Charpy and Izod | ISO 148-2:2016<br>ASTM E23-24 but excluding<br>proof test using certified<br>specimens.<br>BS 131-4:1972 | 0.65 J   |         | B                |
| <b>END</b>                                       |  |  |         |                  |



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### 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:  $Q[a, b] = [a^2 + b^2]^{1/2}$