


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>UKAS CALIBRATION</p> <p>0584</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Tinius Olsen Limited</h3>	
	<p>Issue No: 016</p>	<p>Issue date: 14 March 2011</p>
	<p>6 Perrywood Business Park Honeycrook Lane Salfords Redhill Surrey RH1 5DZ</p>	<p>Contact: Mr T D Adams Tel: +44 (0)1737-765001 Fax: +44 (0)1737-764768 E-Mail: terryadams@tiniousolsen.co.uk Website: www.tiniousolsen.com</p>
<p>Calibration performed by the Organisations at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>Customers' sites or premises Mr T Adams</p> <p>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</p>	Force	S



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DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ($k=2$)	Remarks	Location Code
FORCE				
UNIVERSAL MATERIALS TESTING MACHINES				S
Verification and calibration of the force measuring system by force proving instruments in tension	From 100 N up to 500 kN for Class 0.5, 1, 2 and 3 machines to BS EN ISO 7500-1:2004 From 100 N up to 1340 kN to ASTM E4-10	0.22 %		
Verification and calibration of the force measuring system by force proving instruments in compression	From 100 N up to 2 000 kN for Class 0.5, 1, 2 and 3 machines to BS EN ISO 7500-1:2004 From 100 N up to 4450 kN to ASTM E4-10	0.22 %		
Verification and calibration of the force measuring system by calibrated masses in tension	From 0.05 N up to 200 N for Class 0.5, 1, 2 and 3 machines to BS EN ISO 7500-1:2004 and ASTM E4-10	0.10 %		
Verification and calibration of the force measuring system by force proving instruments in compression	From 0.05 N up to 200 N for Class 0.5, 1, 2 and 3 machines to BS EN ISO 7500-1:2004 and ASTM E4-10	0.10 %		
EXTENSOMETRY				S
Extensometers	As BS EN ISO 9513:2002 for the following classes and gauge lengths: Class 0.2 from 25mm Class 0.5 from 10 mm Class 1 from 5 mm Class 2 from 5 mm As ASTM E83-10 for the following classes and gauge lengths: A from 50 mm B-1 from 20 mm B-2 from 10 mm C from 5 mm Displacements 0.02 mm to 1 mm 1 mm to 25 mm	0.0012 mm 0.12 %		



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Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ($k=2$)	Remarks	Location Code
EXTENSOMETRY (cont'd) Extensometer, Long travel	As BS ISO 5893:2002 for classes C, D and E Displacements: 4 mm to 16.7 mm 16.7 mm to 800 mm	0.040 mm 0.24 %		S
DISPLACEMENT Displacement measuring systems used in Material Testing Machines	As ASTM E2309 4 mm to 16.7 mm 16.7 mm to 800 mm	0.040 mm 0.24 %		S
Displacement measuring devices used in Material Testing Machines	As ASTM E2309 0.02 mm to 1 mm 1 mm to 25 mm	0.0012 mm 0.12 %		
END				