

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 0252 Accredited to ISO/IEC 17025:2005	R&H Testing Services Ltd	
	Issue No: 035	Issue date: 05 January 2010
	Unit 7 Cannel Road Chase Terrace Burntwood Business Park Burntwood Staffordshire WS7 3FU	Contact: Mr R J Chamberlain Tel: +44 (0)1543-677400 Fax: +44 (0)1543-677477 E-Mail: sales@randhtesting.com Website: http://www.randhtesting.com
Calibration performed by the Organisations at the locations specified below		

Locations covered by the organisation and their relevant activities

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Any customer's premises Contact: Mr R J Chamberlain	Force Hardness	Site



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DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty ($k=2$)	Remarks	Location Code
<p>FORCE</p> <p>UNIVERSAL MATERIALS TESTING MACHINES</p> <p>Verification and calibration of the force measuring system by force proving instruments in tension</p> <p>Verification and calibration of the force measuring system by force proving instruments in compression</p> <p>Verification and calibration of the force measuring system by calibrated masses in tension and compression</p> <p>TENSION CREEP TESTING MACHINES</p> <p>Verification of the applied load using force proving instruments</p> <p>Verification of the applied load using masses</p>	<p>From 0.02 kN up to 1080 kN for Class 0.5, 1, 2 and 3 machines to BS EN ISO 7500-1:2004</p> <p>From 0.02 kN up to 3000 kN for Class 1, 2 and 3 machines to BS EN ISO 7500-1:2004 and ASTM E4-09</p> <p>From 0.02 kN up to 1080 kN for Class 0.5, 1, 2, and 3 machines to BS EN ISO 7500-1:2004</p> <p>From 0.02 kN up to 3000 kN for Class 1, 2 and 3 machines to BS EN ISO 7500-1:2004 and ASTM E4-09</p> <p>From 0.10 N up to 50 N for Class 0.5, 1, 2 and 3 machines to BS EN ISO 7500-1:2004 and ASTM E4-09</p> <p>From 0.02 kN up to 500 kN for Class 0.5, 1.0 and 2.0 machines to BS EN ISO 7500-2:2006</p> <p>From 0.1 N up to 50 N for Class 0.5, 1.0 and 2.0 machines to BS EN ISO 7500-2:2006</p>	<p>0.26%</p> <p>0.33%</p> <p>0.26%</p> <p>0.33%</p> <p>0.10%</p> <p>See note 1</p> <p>0.26%</p> <p>0.1%</p> <p>See note 1</p>	<p>NOTES</p> <p>1 The uncertainties stated do not take into account the characteristics of the machine/device being calibrated/verified.</p>	<p>All Site</p>



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IMPACT TESTING MACHINES				All Site
Charpy - Plastics - Izod - Plastics -	BS EN 10045-2:1993 ASTM E23-2000 but excluding proof test using certified specimens. ISO 13802:2006 BS 131:Part 4:1972 ISO 13802:2006	As required to determine compliance with the permitted tolerances	2 The calibration/ verification shall be in accordance with the requirements of BS EN ISO 6508:1999 and BS EN ISO 6508:2005, ASTM E18-07 and ASTM E18-09	
LENGTH				
Extensometers	As BS EN ISO 9513:2002 for the following classes and gauge lengths: Class 0.2 from 25 mm Class 0.5 from 10 mm Class 1 from 5 mm Class 2 from 5 mm Displacements 0.02 up to 2.5 mm	1.3 μ m	3 The calibration/ verification shall be in accordance with the requirements of BS EN ISO 6506:1999 and BS EN ISO 6506:2005, ASTM E10-08.	
Testing machine crosshead displacement	Up to 100 mm 100 to 500 mm 500 to 1 000 mm	0.03 mm 0.14 mm 0.30 mm See Note 1	4 The verification shall be in accordance with the requirements of BS EN ISO 6507:1999 and BS EN ISO 6507:2005, ASTM E92-03 and ASTM E384-08.	
Extensometers, Long travel	As BS ISO 5893:2002 for classes C, D and E			
Displacement	2 to 100 mm 100 to 1 000 mm	0.03 mm 0.30 mm See Note 1		
Speed	As BS ISO 5893:2002 10 to 50 mm/min 50 to 500 mm/min	1.5% 0.6%		



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CERTIFICATION OF HARDNESS TESTING MACHINES IN SERVICE				All Site
Direct verification of Vickers hardness testing machines	Vickers scales: HV 5 to HV 100 HV 0.2 to HV 3	0.24% force 0.1 second time		
Indirect verification of Vickers hardness testing machines	Vickers scales: HV 5 to HV 100 HV 0.2 to HV 3	1% HV 0.1 second time See Note 4		
Verification of indentation measuring equipment for Vickers hardness	0.1 mm to 2 μ m	Direct: 2 μ m Indirect: 0.5% (in mm) on diagonal (3 μ m minimum) [See Note 4]		
Direct verification of Brinell hardness testing machines	Brinell scales: From HB 10/3000 to HB 1/30	0.24% force 0.1 second time		
Verification of indentation measuring devices for Brinell hardness	Direct	0.1% or 10 μ m whichever is the larger		
	Indirect	0.5% or 20 μ m whichever is the larger		
Indirect verification of Brinell hardness testing machines	Brinell scales: From HB 10/3000 to HB 5/25	1.2% HB		
	From HB 2.5/187.5 to HB 1/1	2% HB See Note 3		
Direct & Indirect verification of Rockwell hardness testing machines	Rockwell scales: A, B, C, D, E, F, G, H, K, N & T	1 Rockwell unit See Note 2		
END				