


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>0201</b>  Accredited to <b>ISO/IEC 17025:2005</b>	<b>UK Calibrations Ltd</b>	
	<b>Issue No: 019</b>	<b>Issue date: 23 December 2010</b>
	<b>Unit 1</b> John Samuel Building Arthur Drive Hoo Farm Industrial Estate Kidderminster Worcestershire DY11 7RA	<b>Contact: Mr C Thorpe</b> <b>Tel: +44 (0)1562-822924</b> <b>Fax: +44 (0)1562-822962</b> <b>E-Mail: enquiries@ukcalibrations.co.uk</b> <b>Website: www.ukcalibrations.co.uk</b>
<b>Calibration performed by the Organisations at the locations specified below</b>		

**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 C Thorpe	Hardness	Site



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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
CERTIFICATION OF HARDNESS TESTING MACHINES IN SERVICE			NOTES	All Sites
Direct verification of Vickers & Knoop hardness testing machines	Vickers scales: HV 5 to HV 100 HV 0.1 to HV 3 HV 0.05 to HV 0.010 Force	See note 3  0.24%	1 The calibration/ verification shall be in accordance with the requirements of BS EN ISO 6508:2005 & ASTM E18-08.  2 The calibration/ verification shall be in accordance with the requirements of BS EN ISO 6506:2005, ASTM E10-10.  3 The verification shall be in accordance with the requirements of BS EN ISO 6507:2005, ASTM E384-10 and ISO 4545.	
	Time	0.1 second		
	Length	2 $\mu$ m		
	Vickers scales: HV 100 200 HV 100 400 HV 100 700	See note 3 1.2 HV 3.4 HV 4.1 HV		
	HV 50 200 HV 50 400 HV 50 700	1.9 HV 3.5 HV 6.3 HV		
	HV 30 200 HV 30 400 HV 30 700	2.0 HV 4.4 HV 9.3 HV		
	HV 20 200 HV 20 400 HV 20 700	2.5 HV 6.2 HV 11.0 HV		
	HV 10 200 HV 10 400 HV 10 700	3.1 HV 7.7 HV 14.9 HV		
	HV5 200 HV5 400 HV5 700	3.9 HV 11.0 HV 19.7 HV		
	HV3 200 HV3 400 HV3 700	6.9 HV 16.3 HV 31.0 HV		
HV1 200 HV1 400 HV1 700	8.7 HV 21.4 HV 44.0 HV			
HV 0.5 200 HV 0.5 400 HV 0.5 700	5.0 HV 15.0 HV 17.0 HV			
HV 0.3 200 HV 0.3 400 HV 0.3 700	6.0 HV 16.0 HV 19.0 HV			



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<b>CERTIFICATION OF HARDNESS TESTING MACHINES IN SERVICE</b>				All Sites
Indirect verification of Vickers & Knoop hardness testing machines & indentation measuring devices (Continued)	Vickers scales: HV 0.2 200 HV 0.2 400 HV 0.2 700  HV 0.1 200 HV 0.1 400 HV 0.1 700	See note 3 7.0 HV 17.0 HV 20.0 HV  10.0 HV 30.0 HV 40.0 HV		
Direct verification of Brinell hardness testing machines	Brinell scales: From HB 10/3000 to HB 1/30 Force  Time  Length	See note 2 0.24% force  0.1 second time  10 $\mu$ m		
Indirect verification of Brinell hardness testing machines	Scale 10/3000 600HBW to 140 HBW  Scale 10/1500 299 HBW to 55 HBW  Scale 10/1000 169 HBW to 55 HBW  Scale 5/750 600 HBW to 140 HBW  Scale 5/250 169 HBW to 55 HBW  Scale 2.5/187.5 600 HBW to 140 HBW  Scale 1/30 600 HBW to 96 HBW	See Note 2 8.0 HBW to 2.2 HBW  4.1 HBW to 1.2 HBW  2.3 HBW to 1.2 HBW  9.8 HBW to 2.4 HBW  2.7 HBW to 1.3 HBW  16 HBW to 2.9 HBW  31.6 HBW to 2.9 HBW		
Direct verification of Rockwell hardness testing machines	Rockwell scales: A, B, C, D, E, F, G, H, K,L,M,P,R,S,V, N,T,W,X & Y Force  Length  Time	See note 1 0.24%  0.2 $\mu$ m  0.1 second		
Indirect verification of Rockwell hardness testing machines	Rockwell scales: HRA Scale 80 to 85 70 to 79 60 to 69	See note 1 0.15 HRA 0.16 HRA 0.28 HRA		



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CERTIFICATION OF HARDNESS TESTING MACHINES IN SERVICE				All Sites
Indirect verification of Rockwell hardness testing machines (cont'd)	Rockwell scales: HRB Scale 80 51 to 79 10 to 50  HRC Scale 60 to 70 40 to 59 20 to 39  HRD Scale 70 to 80 50 to 69 40 to 49  HRE Scale 89 75 to 88 65 to 87  HRF Scale 87 70 to 86 40 to 69  HRG Scale 80 40 to 79 10 to 39  HRH Scale 90 80 to 89 60 to 79  HRK Scale 70 30to69 10to29  HRL Scale 115 90 to 114  HRM Scale 100 70 to 99  HRP Scale 85 40 to 84	See Note 1  0.42 HRB 0.87 HRB 1.36 HRB  0.31 HRC 0.32 HRC 0.37 HRC  0.17 HRD 0.25 HRD 0.27 HRD  0.54 HRE 0.54 HRE 0.54 HRE  0.40 HRF 0.40 HRF 0.54 HRF  0.30 HRG 0.30 HRG 0.76 HRG  0.40 HRH 0.40 HRH 0.68 HRH  0.40 HRK 0.40 HRK 0.64 HRK  0.35 HRL 0.35 HRL  0.56 HRM 0.56 HRM  0.65 HRP 0.91 HRP		



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CERTIFICATION OF HARDNESS TESTING MACHINES IN SERVICE				All Sites
Indirect verification of Rockwell hardness testing machines (cont'd)	Rockwell Scales: HRR Scale 120 100 to 119	See Note 1  0.23 HRR 0.40 HRR		
	HRS Scale 112 110 to 111	0.19 HRS 0.91 HRS		
	HRV Scale 104 80 to 103	0.20 HRV 0.61 HRV		
	HR15N Scale 90to95 80to89 40to79	0.18 HR15N 0.18 HR15N 0.39 HR15N		
	HR15T Scale 88 to 100 80 to 87 20 to 79	0.21 HR15T 0.21 HT15T 0.37 HR15T		
	HR15W Scale 89 to 100 80 to 88	0.53 HR15W 0.44 HR15W		
	HR15X Scale 88 to 100 80 to 87	0.33 HR15X 0.62 HR15X		
	HR15Y Scale 94 to 100 85 to 93	0.63 HR15Y 1.30 HR15Y		
	HR30N Scale 77 to 85 60 to 76 40 to 59	0.27 HR30N 0.27 HR30N 0.55 HR30N		
	HR30T Scale 57 to 85 50 to 56 20 to 49	0.39 HR30T 0.66 HR30T 0.90 HR30T		
	HR30W Scale 65 to 100 40 to 64	0.76 HR30W 0.90 HR30W		
	HR30X Scale 79 to 100 60 to 78	0.15 HR30X 0.99 HR30X		



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CERTIFICATION OF HARDNESS TESTING MACHINES IN SERVICE				All Sites
Indirect verification of Rockwell hardness testing machines (cont'd)	Rockwell Scales: HR30Y Scale 88 to 100 60 to 87  HR45N Scale 67 to 75 50 to 66 10 to 49  HR45T Scale 50 to 75 40 to 49 10 to 39  HR45W Scale 49 to 100 10 to 47  HR45X Scale 69 to 100 40 to 68  HR45Y Scale 82 to 100 60 to 81	See Note 1  0.37 HR30Y 0.82 HR30Y  0.18 HR45N 0.21 HR45N 0.43 HR45N  0.40 HR45T 0.40 HR45T 0.73 HR45T  0.12 HR45W 0.29 HR45W  0.34 HR45X 0.81 HR45X  0.29 HR45Y 0.94 HR45Y		
END				