

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 0201 Accredited to ISO/IEC 17025:2005	UK Calibrations Ltd	
	Issue No: 032 Issue date: 14 January 2019	
	Unit 1 John Samuel Building Arthur Drive Hoo Farm Industrial Estate Kidderminster Worcestershire DY11 7RA	Contact: Mr C Thorpe Tel: +44 (0)1562-822924 Fax: +44 (0)1562-822962 E-Mail: enquiries@ukcalibrations.co.uk Website: www.ukcalibrations.co.uk
Calibration performed by the organisation 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 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					
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	See note 3	<p>NOTES</p> <p>1 The calibration/ verification shall be in accordance with the requirements of BS EN ISO 6508:2015 & ASTM E18-18a.</p> <p>2 The calibration/ verification shall be in accordance with the requirements of BS EN ISO 6506:2014, ASTM E10-18.</p> <p>3 The verification shall be in accordance with the requirements of BS EN ISO 6507:2005, ASTM E92-17 & ASTM E384-16. and ISO 4545.</p>	All Sites	
	Force	0.24%			
	Time	0.1 second			
	Length	2 µm			
	Indirect verification of Vickers & Knoop hardness testing machines & indentation measuring devices	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
		HV2.5 200 HV2.5 400 HV2.5 700			6.0 HV 12.6 HV 25.3 HV
		HV2 200 HV2 400 HV2 700			6.7 HV 14.0 HV 29.7 HV
		HV1 200 HV1 400 HV1 700			8.7 HV 21.4 HV 44.0 HV



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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
Indirect verification of Vickers & Knoop hardness testing machines & indentation measuring devices (cont'd)	HV 0.5 200	5.0 HV		
	HV 0.5 400	15.0 HV		
	HV 0.5 700	17.0 HV		
	HV 0.3 200	6.0 HV		
	HV 0.3 400	16.0 HV		
	HV 0.3 700	19.0 HV		
	HV 0.2 200	7.0 HV		
	HV 0.2 400	17.0 HV		
	HV 0.2 700	20.0 HV		
	HV 0.1 200	10.0 HV		
	HV 0.1 400	30.0 HV		
	HV 0.1 700	40.0 HV		
	HV 0.05 80	11.5 HV		
	HV 0.05 115	11.5 HV		
	HV 0.025 100	19.0 HV		
	HV 0.025 200	19.0 HV		
	Knoop scales:	See note 3		
	HK1 200	9.1 HK		
	HK1 400	16.7 HK		
	HK1 700	29.2 HK		
	HK 0.5 200	10.5 HK		
	HK 0.5 400	19.5 HK		
	HK 0.5 700	34.8 HK		
	HK 0.3 200	11.7 HK		
	HK 0.3 400	22.1 HK		
	HK 0.3 700	40.5 HK		
	HK 0.2 200	12.8 HK		
	HK 0.2 400	24.8 HK		
HK 0.2 700	45.9 HK			
HK 0.1 200	15.7 HK			
HK 0.1 400	30.8 HK			
HK 0.1 700	58.0 HK			
HK 0.05 200	7.0 HK			
HK 0.05 400	19.0 HK			
HK 0.05 700	44.0 HK			
HK 0.025 200	9.5 HK			
HK 0.025 400	27.0 HK			
HK 0.025 700	62.5 HK			



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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 μ 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	See Note 2 8.0 HBW to 2.2 HBW 4.1 HBW to 1.2 HBW 2.3 HBW to 1.2 HBW		
Indirect verification of Brinell hardness testing machines (cont'd)	Scale 10/500 100 HBW to 200 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 2.5/62.5 169 HBW to 55 HBW Scale 1/30 600 HBW to 96 HBW Scale 1/10 141 HBW Scale 1/1 21.8 HBW to 3.18 HBW	1.71 HBW 9.8 HBW to 2.4 HBW 2.7 HBW to 1.3 HBW 16 HBW to 2.9 HBW 10 HBW to 2.3 HBW 31.6 HBW to 2.9 HBW 3.6 HBW 1.04 HBW to 0.09 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% 0.40 μ m 0.1 second		



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Indirect verification of Rockwell hardness testing machines	Rockwell scales: HRA Scale 80 to 88 70 to 75 20 to 40	See note 1 0.15 HRA 0.16 HRA 0.28 HRA		
	Rockwell scales: HRB Scale 80 51 to 79 10 to 50	See Note 1 0.42 HRB 0.87 HRB 1.36 HRB		
	HRC Scale 60 to 70 40 to 59 20 to 39	0.31 HRC 0.32 HRC 0.37 HRC		
	HRD Scale 70 to 80 50 to 69 40 to 49	0.17 HRD 0.25 HRD 0.27 HRD		
	HRE Scale 89 75 to 88 65 to 87	0.54 HRE 0.54 HRE 0.54 HRE		
	HRF Scale 87 70 to 86 40 to 69	0.40 HRF 0.40 HRF 0.54 HRF		
	HRG Scale 80 40 to 79 10 to 39	0.30 HRG 0.30 HRG 0.76 HRG		
	HRH Scale 90 80 to 89 60 to 79	0.40 HRH 0.40 HRH 0.68 HRH		
	HRK Scale 70 30to69 10to29	0.40 HRK 0.40 HRK 0.64 HRK		
	HRL Scale 115 90 to 114	0.35 HRL 0.35 HRL		
	HRM Scale 100 70 to 99	0.56 HRM 0.56 HRM		



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Indirect verification of Rockwell hardness testing machines (cont'd)	HRP Scale 85 40 to 84	0.65 HRP 0.91 HRP		
	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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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				