


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 0201 Accredited to ISO/IEC 17025:2005	UK Calibrations Ltd	
	Issue No: 018 Issue date: 07 April 2010	
	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 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 C Thorpe	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
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, HV 0.040, HV 0.030, HV 0.025, HV 0.020, HV 0.010, HV 0.005,, HV 0.004, HV 0.002 and HV 0.001	0.24% force 0.1 second time	1 The calibration/ verification shall be in accordance with the requirements of ASTM E18-08a.	
Indirect verification of Vickers & Knoop hardness testing machines	Vickers scales: HV 5 to HV 100 HV 0.1 to HV 3 HV 0.05, HV 0.040, HV 0.030, HV 0.025, HV 0.020, HV 0.010, HV 0.005,, HV 0.004, HV 0.002 and HV 0.001	Uncertainties quoted will depend on the performance of the hardness testing machine under calibration, and will not be less than the uncertainty of calibration of the hardness reference blocks used for the calibration.	2 The calibration/ verification shall be in accordance with the requirements of BS EN ISO 6508:2005 3 The calibration/ verification shall be in accordance with the requirements of BS EN ISO 6506:2005, ASTM E10-08.	
Verification of indentation measuring equipment for Vickers & Knoop 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]	4 The verification shall be in accordance with the requirements of BS EN ISO 6507:2005, ASTM E92-03, ASTM E384-10 and ISO 4545.	
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 Indirect	0.1% or 10 μ m whichever is the larger 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 From HB 2.5/187.5 to HB 1/1	Uncertainties quoted will depend on the performance of the hardness testing machine under calibration, and will not be less than the uncertainty of calibration of the hardness reference blocks used for the calibration.		



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CERTIFICATION OF HARDNESS TESTING MACHINES IN SERVICE				All Sites
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	0.24% force 0.1 m length 0.1 second time		
Indirect 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	Uncertainties quoted will depend on the performance of the hardness testing machine under calibration, and will not be less than the uncertainty of calibration of the hardness reference blocks used for the calibration.		
Direct verification of Rockwell hardness testing machines	Rockwell scales: A, B, C, D, E, F, G, H, K, N & T	0.24% force 0.1 m length 0.1 second time		
Indirect verification of Rockwell hardness testing machines	Rockwell scales: A, B, C, D, E, F, G, H, K, N & T	Uncertainties quoted will depend on the performance of the hardness testing machine under calibration, and will not be less than the uncertainty of calibration of the hardness reference blocks used for the calibration.		
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