Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

0232

Indentec Hardness Testing Machines Ltd

Issue No: 13 **Issue date: 14 February 2003**

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SUMMARY OF ACCREDITATION

Calibration performed on permanent laboratory premises

HARDNESS

Indentors, ball
Test blocks, Rockwell
Test blocks, Vickers
Test blocks, Brinell
Testing machines, Rockwell, direct
Testing machines, Rockwell, indirect
Testing machines, Vickers, direct
Testing machines, Vickers, indirect
Testing machines, Brinell, direct
Testing machines, Brinell, indirect

UKAS CALIBRATION
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DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty (k=2)	Remarks
HARDNESS			1 The calibration/verification shall be in accordance with the requirements of BS EN ISO 6508:Parts 1, 2 and 3:1999 and ASTM E18-02 2 The verification shall be in accordance with the requirements of BS EN ISO 6507:1998 and ASTM E92-97. 3. The verification shall be in accordance with the requirements of BS EN ISO 6506:1998 and ASTM E10-01.
Calibration of Rockwell Standardized Hardness Blocks	Rockwell scales: A, B, C, D, E, F, G, H, K, N and T	1 Rockwell Unit 1	See Note 1
Calibration of Vickers Reference Hardness Blocks	Vickers scales: HV 50 to HV 1	1% HV 2	See Note 2
Calibration of Brinell Reference Hardness Blocks	Brinell scales: From HBW 10/3000 to HBW 1/1	0.5% on indentation size mm 3	See Note 3
Certification of Ball Indenters	Rockwell	See Note 1	
	Brinell	See Note 3	
CERTIFICATION OF HARDNESS MEASURING MACHINES IN SERVICE			
Direct verification of Rockwell Hardness Testing Machines	Rockwell scales: A, B, C, D, E, F, G, H, K, N and T	0.12% force 0.1 µm length 0.1 second time	See Note 1
Indirect verification of Rockwell Hardness Testing Machines	Rockwell scales: A, B, C, D, E, F, G, H, K, N and T	1 Rockwell unit 1	See Note 1
Direct verification of Vickers hardness calibrating and testing machines	Vickers scales: HV 50 to HV 1	0.12% force 0.1 second time	See Note 2
Verification of indentation measuring equipment for Vickers hardness	1.0 mm to 0.51 mm 0.5 mm to 0.05 mm 1.0 mm to 0.05 mm	Direct 2 µm Direct 1 µm Indirect 0.5% (in mm) on diagonal (2 m minimum)	See Note 2
Indirect verification of Vickers hardness testing machines	Vickers scales: HV 5 to HV 100 HV 0.2 to HV 3	1% HV	See Note 2
Direct verification of Brinell Hardness Testing Machines	Brinell scales: From HBW 10/3000 to HBW 1/1	0.24% force 0.1 second time	See Note 3
Indirect verification of Brinell Hardness Testing Machines	Brinell scales: From HBW 10/3000 to HBW 1/1	1.0% HBW	See Note 3
Verification of indentation measuring equipment for Brinell hardness	Direct	0.1% or 10 µm whichever is the larger	See Note 3

END