

CERTIFICATE OF CALIBRATION

ISSUED BY EURO PRODUCTS CALIBRATION LABORATORY

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SERIAL NUMBER

153587



0441

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APPROVED SIGNATORY

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EURO PRODUCTS LIMITED

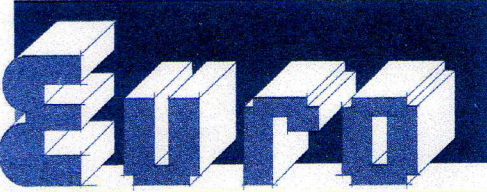
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Customer: Koopa pazhoohesh Co (PJ)
No 47 Amir Mazandrani St., Sari Iran

Description: Rockwell Reference Hardness Block

Block Serial Number: EP0799441

Data of calibration: 10.July.2008

Calibration Details: The above Reference Hardness Block has been examined in the EURO PRODUCTS calibration laboratory and was found to comply with the requirements of BS EN ISO 6508-3 1999 clause 3 and ASTM E18 2005 clause 16. The above Reference Hardness Block value was calibrated on a standardizing machine complying with the requirements of BS EN ISO 6508-3 and ASTM E18 2005, having hardness scales traceable to the UK National Scales as defined by IMGC; the machine was also indirectly verified in the Rockwell C Scale with reference blocks calibrated by NIST.

Results: The above Reference Hardness Block was found to comply with the requirements of BS EN ISO 6508-3 clause 7 and ASTM E18 2005 clause 20 and the hardness values obtained are given below:

Mean Hardness Value: 26.3 HRC	Uniformity of Hardness: 0.5 Units
Maximum Value : Test 1: 26.5 HRC	Test 2: 26.4 HRC
Test 3: 26.3 HRC	Test 4: 26.2 HRC
Minimum Value : Test 5: 26.0 HRC	

Calibration made at: 23 ± 2°C

Reference Hardness Block Thickness: 15.19mm

Uncertainty of measurement: ± 1 HRC units
± 0.005mm Thickness

Approved Signatory:

Validity: This Hardness Reference Block is only valid for the scale for which it was calibrated. It is recommended that the duration of the calibration validity should be limited to 5 years.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor K=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

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