## CERTIFICATE OF CALIBRATION

ISSUED BY EURO PRODUCTS CALIBRATION LABORATORY

DATE OF ISSUE

march 04, 2008

SERIAL NUMBER 002114



0903

EURO PRODUCTS LIMITED



Yardley House, Yardley Street, Stourbridge, West Midlands DY9 7 AT

Tel: (01384) 895000 Fax: (01384) 897000

E-mail: sales@europroducts.co.uk Website: www.europroducts.co.uk PAGE 1 OF 1 PAGES

APPROVED SIGNATORY

D. Perkins

T. Chandler

C. Perkins

Client:

IMPACTA INSTRUMENTAÇÃO ME

10015

**Impacta Instrumentos** 

Padrão: I 015

Validade: Indeterminado

Description:

**Rockwell Reference Hardness Tester Block** 

**Block Serial Number:** 

5946

Date of Calibration:

march 04, 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 E 18:2000 clause 16. The above Reference Hardness Block value was calibrated on a standardising machine complying with the requirements of BS EN ISO 6508-3 and ASTM E 18: 2000, having hardness scales traceable to the UK National Scales as defined by IMGC: the machine was also indirectly verified in the Rockwell 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 E 18:2000 clause 20 and the hardness values obtained are given

below:

Mean Hardness Value:

HRB 39,9

Uniformity of Hardness: 0.4 units

Maximum Value

: Test 1: HRB 39.9

Test 2:

HRB 39,9

Minimum Value

: Test 3: HRB 39,5

Test 4: HRB 39,5

Calibration made at:

23° C ± 2

Reference Hardness Block Thickness: 10,54mm

**Uncertainty of Measurement:** 

±1 HRB

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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