CERTIFICATE OF CALIBRATION

ISSUED BY EURO PRODUCTS CALIBRATION LABORATORY

july 18, 2008 DATE OF ISSUE

SERIAL NUMBER 002114



0984

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APPROVED SIGNATORY

D. Perkins

T. Chandler

C. Perkins

Client:

IMPACTA INSTRUMENTAÇÃO ME

Impacta Instrumentos

Padrão: I 127

Validade: Indeterminado

Description:

Rockwell Reference Hardness Tester Block

Block Serial Number:

5473

Date of Calibration:

july 18, 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 with reference blocks calibrated machine was also indirectly verified in the Rockwell

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 88.2

Uniformity of Hardness: 0.4 units

Maximum Value : Test 1: HRB 88.2

Test 2: HRB 88,2

Minimum Value : Test 3: HRB 88,1

Test 4: HRB 88,1

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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