I 088

CERTIFICATE OF CALIBRATION

ISSUED BY EURO PRODUCTS CALIBRATION LABORATORY

DATE OF ISSUE may 05, 2008 SERIAL NUMBER 002196

UKAS CALIBRATION 0449

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APPROVED SIGNATORY
D. Perkins
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Client: Padrão Impacta

Validade Mês ____ /Ano ____

Description: Vickers Reference Hardness Tester Block

Block Serial Number: 5900

Date of Calibration: may 05, 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: 2008, having hardness scales traceable to the UK National Scales as defined by IMGC: the machine was also indirectly verified in the Vickers 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:	HV 10 686	Uniformity of Hardness: 0.4 units	
Maximum Value :	Test 1: HV 10 686	Test 2:	HV 10 689
Minimum Value :	Test 3: HV 10 684	Test 4:	HV 10 683

Calibration made at: 23° C ± 2

Impacta Instrumentos
Padrão: I 088
Validade: Indeterminado

Uncertainty of Measurement: ± 7 HV 10

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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