CERTIFICATE OF CALIBRATION
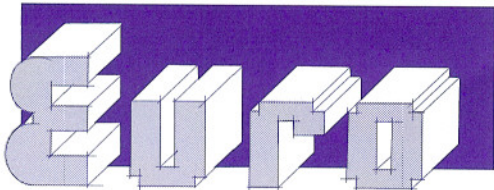
NAMAS

CALIBRATION
No. 0441

EURO PRODUCTS LIMITED

Unit 4,
Hagley Hall Mews,
Hall Drive,
Hagley,
Worcestershire
DY9 9LG.

Tel: (01562) 882888
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APPROVED SIGNATORY

D. Perkins
T. Chandler
C. Perkins

Name and Address of Customer : Fortel Ind E Com Ltda

Hardness Test block Identity : EP9716281

Date of Calibration : 23.July.97

The above Hardness Test Block has been examined in the EURO PRODUCTS calibration laboratory and found to comply with the requirements of BS 427:1990:Clause 18, ASTM E92-1992:Clause 20 and ISO 640:1984:Clause 3. The above Hardness Test Block has been calibrated on a standardising machine complying to the requirements of British Standard 427: 1990, ASTM E92: 1992 and ISO 640: 1984, having hardness scales traceable to the UK National Scales defined by IMGC. The calibration made in accordance with BS427:1990:Clause 19, ASTM E92:1992:Clause 25 and ISO 640:1984: Clause 7 gave the following values.

```
MEAN HARDNESS VALUE   : 760.3 HV20
Maximum hardness value: 764.5 HV20
Minimum hardness value: 755.6 HV20
Magnification used    : x 250

Assigned Block Value  : 760.0 HV20
Thickness of Block    : 14.7 mm
Identified Indent: 0.2218/0.2204 Av.= 0.2211 mm

Calibration made at   : 21 °C
```

Uncertainty of measurement : + or - 1.5% HV
                             + or - 0.0005 mm

Approved Signatory.

The uncertainties are for a confidence probability of not less than 95%