## CERTIFICATE OF CALIBRATION

ISSUED BY

OPUS METROLOGY LTD.

DATE OF ISSUE

15th January 2001

CERTIFICATE NUMBER 65430



CALIBRATION No. 0233



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APPROVED SIGNATORY

P A Eddy

**DESCRIPTON:** 

Gauge blocks.

Material: T CARBIDE

TYPE:

INDIVIDUAL SET SERIAL NO.: S0026387A

MANUFACTURED BY:

Opus Metrology Ltd

CUSTOMER:

Intec Bassersdorf AG

for:- Intec Bassersdorf AG,

Bassersdorf, SWITZERLAND

**ORDER NO: 35899** 

BASIS OF TEST:

ISO 3650:1998 Grade: K

TRACEABILITY:

Master Gauge Sets:

95864/A171/OPUS

Comparators:

A175

TEST CONDITIONS:

All measurements were performed at 20° C ± 1°

MEASUREMENT OF

LENGTH:

The measured central length of each gauge in this set has been determined by comparison against

a traceable calibration standard manufactured from a similar material.

The deviations of measured central lengths from nominal are recorded on page 2.

VARIATION IN

LENGTH:

The variation in length for each gauge has been calculated from measurements taken at the centre

and towards each corner of the measuring face.

FLATNESS:

Each gauge has been examined for flatness of its' measuring faces on a Fizeau Interferometer

using a Helium Neon laser light source.

All measured values obtained from the above examination were found to comply with the requirements of the above specification.

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.

This certificate is issued in accordance with the requirements of the United Kingdom Accreditation Service as specified in the NAMAS Accreditation Standard and NAMAS Regulations. It provides traceability of measurement to recognised national standards, and to the units of measurement realised at the National Physical Laboratory or other recognised national standards laboratories. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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UKAS ACCREDITED CALIBRATION LABORATORY No 0233

DATE OF CALIBRATION: 15th January 2001

Nominal	Ser. No	Deviation	Nominal	Ser.No.	Deviation	Nominal	Ser.No. Deviation
mm		μm	mm		μm	mm	μm

+

10.00000 00083E +0.04

## UNCERTAINTY OF MEASUREMENT

TEL OF HILLIAND CHURCH

 Up 'to and Including

 10mm
 0.08μm

 25mm
 0.10μm

 50mm
 0.12μm

 75mm
 0.15μm

 100mm
 0.18μm