

CERTIFICATE OF CALIBRATION

ISSUED BY SPHERIC – TRAFALGAR LIMITED

DATE OF ISSUE 16 November, 2004 CERTIFICATE NUMBER 40390



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the business

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Approved Signature

G.J.S.Hartley

Customer: **SAMPLE**

Order No:

SAMPLE

Date of Calibration:

10-Nov-04

Description:

CMM Reference Ball

Part No:

C55918025

Size:

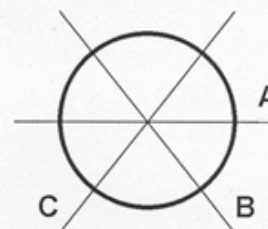
25.000mm \pm 0.25 μ m Grade 5

Material:

SS440C

Identification No:

379



Report:

The ball has been checked against the Laboratory Standards for diameter on three plane(s) with the measured diameters, corrected for elastic compression, expressed to the nearest 0.000 05mm given below, and for roundness on three plane(s) with the results as given below.

Plane	Measured diameter (mm)	Roundness (μ m) (LSC: $\Delta r =$)
A	25.000 25	0.08
B	25.000 20	0.06
C	25.000 20	0.07

Uncertainty of Measurement \pm 0.000 65mm

Equipment:

DIAMETER: Heidenhain 'CERTO' Gauging System

ROUNDNESS: Steyr MWA160A Roundness Analyser

Temperature:

20 Deg.C \pm 1 Deg.C

Traceability:

To National Standards via Gauge Blocks serial no: 10054

For USA: To NIST on Certificate No. 821/265302-01

Laboratory Note Book

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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