


## CERTIFICATE OF CALIBRATION

Issue:- Certificate Number: **98625**  
98625\_10 Date of Issue: **22-Jan-26**  
Approved Signatory: **Thomas Herrington**  
Page 1 of 2 Signed: 



### Submitter:-

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### Issued by:-

Kent Scientific Services  
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**EQUIPMENT:** Weights  
**SERIAL NUMBER:** Set AH6  
**MAKE/TYPE:** N/A  
**STANDARDS USED:** Set 12412  
**DATE RECEIVED:** 16 January 2026  
**DATE CALIBRATED:** 22 January 2026  
**DETAILS:** 10 Brass

### MEASUREMENTS:

Kent Scientific Services method used: CAL SMALL, Calibration of Small Masses.

The calibrations took place in a controlled environment with the temperature held between 18°C and 22°C, and with the relative humidity held between 40% and 60%.

The measurement results obtained in the table, where each measured value given represents not the true mass, but the mass of a hypothetical weight of density  $8,000 \text{ kg.m}^{-3}$ , which in air of density  $1.2 \text{ kg.m}^{-3}$  would balance the corresponding weight identified in the first column at 20°C.

The method of weighing was by substitution (Borda's method). In each instance the standard weight used had been calibrated by UKAS Calibration Laboratory number 0474, 0260 or 0352 within the previous three years. The uncertainty of measurements for each of the different denominations is listed in the last column of the table. Duplicate weights, where present, are indicated by a dot or dots.

Customer supplied information is notated with a ~, and results relate only to the item(s) calibrated.

Unless otherwise notated, samples are tested in as received condition at Kent Scientific Services.

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TABLE OF MEASUREMENT RESULTS

Nominal Mass	Measured Value	Error from Nominal	Estimated Uncertainty
100 g	100.002 5 g	+ 2.5 mg	± 1.0 mg
100 g°	100.003 3 g	+ 3.3 mg	± 1.0 mg
50 g	49.998 83 g	- 1.17 mg	± 0.60 mg
20 g	19.997 99 g	- 2.01 mg	± 0.50 mg
20 g°	19.998 50 g	- 1.50 mg	± 0.50 mg
10 g	10.000 34 g	+ 0.34 mg	± 0.40 mg
5 g	5.000 74 g	+ 0.74 mg	± 0.30 mg
2 g	2.000 22 g	+ 0.22 mg	± 0.24 mg
2 g°	1.999 98 g	- 0.02 mg	± 0.24 mg
1 g	1.000 05 g	+ 0.05 mg	± 0.20 mg

END OF RESULTS

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.