


CERTIFICATE OF CALIBRATION

Issue:- 96921_10	Certificate Number: Date of Issue:	96921 18-Oct-23
Page 1 of 2	Approved Signatory: Signed:	Tom Williams 



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Issued by:-

Kent Scientific Services
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EQUIPMENT:	Weights
SERIAL NUMBER:	AH2
MAKE/TYPE:	N/A
STANDARDS USED:	Set 12412
DATE RECEIVED:	03 October 2023
DATE CALIBRATED:	17 October 2023
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 kg.m⁻³, which in air of density 1.2 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

<u>Nominal Mass</u>	<u>Measured Value</u>	<u>Error from Nominal</u>	<u>Estimated Uncertainty</u>
100 g	99.998 9 g	- 1.1 mg	± 1.0 mg
100 g ^o	100.001 0 g	+ 1.0 mg	± 1.0 mg
50 g	50.000 19 g	+ 0.19 mg	± 0.60 mg
20 g	20.000 99 g	+ 1.01 mg	± 0.50 mg
20 g ^o	20.001 02 g	+ 1.02 mg	± 0.50 mg
10 g	10.000 65 g	+ 0.65 mg	± 0.40 mg
5 g	5.000 61 g	+ 0.61 mg	± 0.30 mg
2 g	2.000 38 g	+ 0.38 mg	± 0.24 mg
2 g ^o	2.000 61 g	+ 0.61 mg	± 0.24 mg
1 g	1.000 35 g	+ 0.35 mg	± 0.20 mg

END OF RESULTS