CERTIFICATE OF CALIBRATION

Issue:- 98517_10

Certificate Number: **98517**

Date of Issue: **10-Dec-25**

Approved Signatory: **Thomas Herrington**

Page 1 of 2 Signed:

UKAS CALIBRATION 0352

Kent County Council kent.gov.uk

Submitter:-
Mecmesin Limited
Newton House
Spring Copse Business Park
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RH13 0SZ

Issued by:-
Kent Scientific Services
8 Abbey Wood Road
Kings Hill
West Malling
Kent
ME19 4YT
Tel: 03000 415 100
Fax: 01732 220006

EQUIPMENT: Weights

SERIAL NUMBER: See table overleaf

MAKE/TYPE: N/A Set AH3

STANDARDS USED: Set 12412

DATE RECEIVED: 3 December 2025

DATE CALIBRATED: 8 December 2025

DETAILS: 14 Cast Iron, 1 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.

TABLE OF MEASUREMENT RESULTS

Identity Mark	Nominal Mass	Measured Value	Error from Nominal	Estimated Uncertainty
MB2	0.5N	50.929 36 g	- 31.5 mg	± 0.6 mg
S2A	1N	101.919 0 g	- 2.7 mg	± 1.0 mg
S2B	1N	101.899 4 g	- 22.3 mg	± 1.0 mg
S2C	1N	101.917 6 g	- 4.1 mg	± 1.0 mg
S2D	1N	101.918 5 g	- 3.2 mg	± 1.0 mg
S2F	5N	509.598 7 g	- 9.4 mg	± 5.1 mg
S2G	10N	1019.169 g	- 46.8 mg	± 10.2 mg
S2H	20N	2038.389 g	- 43.3 mg	± 20.4 mg
S2I	20N	2038.365 g	- 67.2 mg	± 20.4 mg
S2J	50N	5095.871 g	- 211 mg	± 51 mg
S2K	100N	10192.20 g	+ 38 mg	± 103 mg
S2L	100N	10192.12 g	- 44 mg	± 103 mg
S2M	100N	10192.17 g	+ 11 mg	± 103 mg
S2N	100N	10192.06 g	- 99 mg	± 103 mg
S2B	* 1N	101.922 6 g	+ 0.9 mg	± 1.0 mg
S2G	* 10N	1019.209 g	- 6.8 mg	± 10.2 mg
S2J	* 50N	5096.080 g	- 1 mg	± 51 mg
PO15 HANGER	5N	509.624 5 g	+ 16.3 mg	± 5.1 mg

* Denotes post adjustment calibration

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.