CERTIFICATE OF CALIBRATION

Issue:- 98496_10 | Certificate Number: **98496** | Date of Issue: **02-Dec-25**

Approved Signatory: **Thomas Herrington**

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UKAS CALIBRATION 0352

Kent County Council kent.gov.uk

Submitter:-
Mecmesin Limited
Newton House
Spring Copse Business Park
Slinfold
West Sussex
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 Set MC1

MAKE/TYPE: N/A

STANDARDS USED: Set 12412

DATE RECEIVED: 14 November 2025

DATE CALIBRATED: 25 November 2025

DETAILS: 10 Cast Iron

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
1975	10 kg	10,000.02 g	+ 20 mg	± 100 mg
1976	10 kg	10,000.33 g	+ 330 mg	± 100 mg
1921	10 kg	10,000.19 g	+ 190 mg	± 100 mg
1928	10 kg	9,999.69 g	- 310 mg	± 100 mg
1915	5 kg	5,000.113 g	+ 113 mg	± 50 mg
1916	5 kg	5,000.203 g	+ 203 mg	± 50 mg
1936	2 kg	2,000.113 g	+ 113 mg	± 20 mg
1939	2 kg	1,999.962 g	- 38 mg	± 20 mg
1912	1 kg	1,000.024 g	+ 24 mg	± 10 mg
1942	1 kg	999.984 g	- 16 mg	± 10 mg
1916	* 5 kg	5,000.091 g	+ 91 mg	± 50 mg
1936	* 2 kg	2,000.013 g	+ 13 mg	± 20 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.