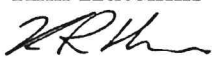


CERTIFICATE OF CALIBRATION

Issue:-	Certificate Number:	91982
91982_10	Date of Issue:	28-Dec-17
Page 1 of 2	Approved Signatory:	Kim Hutchins
	Signed:	



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:	MC1
MAKE/TYPE:	N/A
STANDARDS USED:	Set 12412
DATE RECEIVED:	21 December 2017
DATE CALIBRATED:	22 December 2017
DETAILS:	27 Cast Iron

MEASUREMENTS:

Kent Scientific Services method used: CAL-M2, 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 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.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

TABLE OF MEASUREMENT RESULTS

<u>Identity Mark</u>	<u>Nominal Mass</u>	<u>Measured Value</u>	<u>Error from Nominal</u>	<u>Estimated Uncertainty</u>
1943	25 kg	24,999.40 g	- 600 mg	± 250 mg
1945	25 kg	24,999.94 g	- 60 mg	± 250 mg
1944	20 kg	19,999.99 g	- 10 mg	± 200 mg
1946	20 kg	20,000.12 g	+ 120 mg	± 200 mg
1920	10 kg	10,000.34 g	+ 340 mg	± 100 mg
1921	10 kg	10,000.39 g	+ 390 mg	± 100 mg
1928	10 kg	9,999.96 g	- 40 mg	± 100 mg
1975	10 kg	10,000.18 g	+ 180 mg	± 100 mg
1976	10 kg	9,999.73 g	- 270 mg	± 100 mg
1915	5 kg	5,000.198 g	+ 198 mg	± 50 mg
1916	5 kg	5,000.173 g	+ 173 mg	± 50 mg
1917	5 kg	5,000.199 g	+ 199 mg	± 50 mg
1918	5 kg	5,000.187 g	+ 187 mg	± 50 mg
1919	5 kg	5,000.106 g	+ 106 mg	± 50 mg
1934	5 kg	5,000.031 g	+ 31 mg	± 50 mg
1913	2 kg	2,000.068 g	+ 68 mg	± 20 mg
1914	2 kg	2,000.048 g	+ 48 mg	± 20 mg
1936	2 kg	1,999.962 g	- 38 mg	± 20 mg
1939	2 kg	2,000.022 g	+ 22 mg	± 20 mg
1910	1 kg	1,000.017 g	+ 17 mg	± 10 mg
1911	1 kg	1,000.011 g	+ 11 mg	± 10 mg
1912	1 kg	1,000.016 g	+ 16 mg	± 10 mg
1938	1 kg	999.975 g	- 25 mg	± 10 mg
1941	1 kg	999.978 g	- 22 mg	± 10 mg
1942	1 kg	999.905 g	- 95 mg	± 10 mg
1977	1 kg	999.970 g	- 30 mg	± 10 mg
1940	500 g	499.978 7 g	- 21.3 mg	± 5.0 mg
1942	* 1 kg	1,000.026 g	+ 26 mg	± 10 mg
1940	* 500 g	500.010 1 g	+ 10.1 mg	± 5.0 mg

* Denotes post adjustment calibration

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