


## CERTIFICATE OF CALIBRATION

Issue:- Certificate Number: **98535**  
98535\_10 Date of Issue: **17-Dec-25**  
Approved Signatory: **Thomas Herrington**  
Page 1 of 2 Signed: 



### Submitter:-

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### Issued by:-

Kent Scientific Services  
8 Abbey Wood Road  
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**EQUIPMENT:** Weights  
**SERIAL NUMBER:** Boxset MS1  
**MAKE/TYPE:** Reverifications Ltd  
**STANDARDS USED:** Set 12412  
**DATE RECEIVED:** 5 December 2025  
**DATE CALIBRATED:** 15 December 2025  
**DETAILS:** 13 Stainless Steel

### 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<sup>-3</sup>, which in air of density 1.2 kg.m<sup>-3</sup> 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>Identity<br/>Mark</u> | <u>Nominal<br/>Mass</u> | <u>Measured<br/>Value</u> | <u>Error from<br/>Nominal</u> | <u>Estimated<br/>Uncertainty</u> |
|--------------------------|-------------------------|---------------------------|-------------------------------|----------------------------------|
| MS1                      | 1 g                     | 1.000 08 g                | + 0.08 mg                     | ± 0.20 mg                        |
| MS1                      | 2 g                     | 1.999 92 g                | - 0.08 mg                     | ± 0.24 mg                        |
| MS1                      | 2 g°                    | 2.000 09 g                | + 0.09 mg                     | ± 0.24 mg                        |
| MS1                      | 5 g                     | 4.999 99 g                | - 0.01 mg                     | ± 0.30 mg                        |
| MS1                      | 10 g                    | 9.999 84 g                | - 0.16 mg                     | ± 0.40 mg                        |
| MS1                      | 20 g                    | 19.999 82 g               | - 0.18 mg                     | ± 0.50 mg                        |
| MS1                      | 20 g°                   | 19.999 98 g               | - 0.02 mg                     | ± 0.50 mg                        |
| MS1                      | 50 g                    | 50.000 09 g               | + 0.09 mg                     | ± 0.60 mg                        |
| MS1                      | 100 g                   | 100.000 4 g               | + 0.4 mg                      | ± 1.0 mg                         |
| MS1                      | 200 g                   | 199.999 8 g               | - 0.2 mg                      | ± 2.0 mg                         |
| MS1                      | 200 g°                  | 200.000 2 g               | + 0.2 mg                      | ± 2.0 mg                         |
| MS1                      | 500 g                   | 500.001 6 g               | + 1.6 mg                      | ± 5.0 mg                         |
| MS1                      | 1 kg                    | 1,000.001 g               | + 1 mg                        | ± 10 mg                          |

END OF RESULTS