

**Certificate Number 48565**

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08 July 2025

Total Laboratory Services Limited  
Unit 14C  
Sunrise Business Park  
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Dorset  
DT11 8ST

## CERTIFICATE OF CALIBRATION

We hereby certify that the 20kg 10kg cast iron bar, 10kg 5kg 2kg 1kg 500g 100g 1g stainless steel and 500mg 100mg flat plate listed weights in individual cases have been calibrated to fall within O.I.M.L. class M<sub>1</sub> tolerance.

Nominal Value	Difference from Nominal Value in mg
Cast Iron	
20kg ( W11938 )	+ 518
10kg ( W11937 )	+ 352
Stainless Steel	
10kg ( W11929 )	+ 184
5kg ( W11930 )	+ 87
2kg ( W11931 )	+ 42
1kg ( W11948 )	+ 39
500g ( W11932 )	+ 11
100g ( W11933 )	+ 0.1
1g ( W11934 )	+ 0.0
Flat Plate	
500mg ( W11935 )	+ 0.14
100mg ( W11936 )	+ 0.03

The measured values reported in this certificate were determined by comparison weighing methods against our laboratory's reference standards with a hypothetical density of 8000 kg/m<sup>3</sup> which in air of density 1.2kg/m<sup>3</sup> would balance the nominal weight.

**Traceability** to National Standards is established by comparison to WEIGHTS standard class E<sub>2</sub> weight set number 988 certified on UKAS certificate number UP1228. Date of issue 21st August 2024 by Norfolk Calibration Services. UKAS calibration number 0260.

### Recommended Recalibration - October 2026.

Why should recalibration be carried out? Recalibration of test equipment is a major requirement for quality management systems. All test weights vary with time due to wear and the collection of grime. The extreme of weight change varies with the environment the weights are used in, consequently periodic recalibration at regular intervals is required.

Signed



OIML +/- maximum permissible tolerance on calibration weights						
Nominal Value	Class E mg	Class E <sub>2</sub> mg	Class F mg	Class F <sub>2</sub> mg	Class M mg	Class M <sub>2</sub> mg
50kg	25	80	250	800	2,500	8,000
20kg	10	30	100	300	1,000	3,000
10kg	5.0	16	50	160	500	1,600
5kg	2.5	8.0	25	80	250	800
2kg	1.0	3.0	10	30	100	300
1kg	0.5	1.6	5.0	16	50	160
500g	0.25	0.8	2.5	8.0	25	80
200g	0.10	0.3	1.0	3.0	10	30
100g	0.05	0.16	0.5	1.6	5.0	16
50g	0.03	0.10	0.3	1.0	3.0	10
20g	0.025	0.08	0.25	0.8	2.5	8.0
10g	0.020	0.06	0.20	0.6	2.0	6.0
5g	0.016	0.05	0.16	0.5	1.6	5.0
2g	0.012	0.04	0.12	0.4	1.2	4.0
1g	0.010	0.03	0.10	0.3	1.0	3.0
500mg	0.008	0.025	0.08	0.25	0.8	2.5
200mg	0.006	0.020	0.06	0.20	0.6	2.0
100mg	0.005	0.016	0.05	0.16	0.5	1.6
50mg	0.004	0.012	0.04	0.12	0.4	-
20mg	0.003	0.010	0.03	0.10	0.3	-
10mg	0.003	0.008	0.025	0.08	0.25	-
5mg	0.003	0.006	0.020	0.06	0.20	-
2mg	0.003	0.006	0.020	0.06	0.20	-
1mg	0.003	0.006	0.020	0.06	0.20	-