



**STATE OF CONNECTICUT**  
**DEPARTMENT OF CONSUMER PROTECTION**

Report of Test for: 1 - Set of Metric Weights 5 kilogram to 1 gram (21 Weights)

Submitted by:

**ADVANCED SCALE, INC.**  
**13 DELTA DRIVE UNIT 6**  
**LONDONDERRY, NH 03053**

TESTED BY: DEPT. OF CONSUMER PROTECTION, DIVISION OF FOOD AND STANDARDS - METROLOGY LABORATORY  
 9 WINDSOR AVENUE, WINDSOR, CT 06095

Manufacturer: RICE LAKE  
 S/N: VT05-481

CT. TEST NO. 2019 - 66

The weights described above have been compared with the Standards of the State of Connecticut (Working Standards - Metric Set D), traceable to the International System of Units (SI), through the Rice Lake Certificate of Weight Calibration No. a2498509B, and were found to be appropriate for their intended use and to be accurate / (adjusted) to within CLASS F TOLERANCE as indicated on the attached tolerance table.

The following mass values reflect the as found and as left condition of weights as they were delivered for testing.

<u>DENOMINATION</u>	<u>CLASS F TOLERANCE (± MILLIGRAM)</u>	<u>AS FOUND CONVENTIONAL MASS CORRECTION (MILLIGRAM)</u>	<u>AS LEFT CONVENTIONAL MASS CORRECTION (MILLIGRAM)</u>	<u>UNCERTAINTY (± MILLIGRAM)</u>	<u>K COVERAGE FACTOR</u>
5 kg	500	143	SAME	32	2.03
5 kg *	500	108	SAME	32	2.03
2 kg	200	41	SAME	13	2.02
2 kg *	200	48	SAME	13	2.02
1 kg	100	21.8	SAME	6.4	2.05
500 g	70	20.4	SAME	4.5	2.05
500 g *	70	24.4	SAME	4.5	2.05
500 g **	70	18.2	SAME	4.5	2.05
500 g ***	70	16.2	SAME	4.5	2.05
500 g ****	70	19.8	SAME	4.5	2.05
200 g	40	13.8	SAME	2.5	2.02
200 g *	40	13.3	SAME	2.5	2.02
100 g	20	6.0	SAME	1.3	2.02
50 g	10	1.28	SAME	0.64	2.02
20 g	4.0	1.17	SAME	0.27	2.02
20 g *	4.0	0.31	SAME	0.27	2.02
10 g	2.0	0.20	SAME	0.16	2.02
5 g	1.5	0.338	SAME	0.095	2.02
2 g	1.1	0.287	SAME	0.081	2.02
2 g *	1.1	0.241	SAME	0.081	2.02
1 g	0.90	0.186	SAME	0.070	2.02



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Test Procedure: SOP #8, MODIFIED SUBSTITUTION

Balances used: PM5003, AT1005, AT106, UMT5 (METTLER TOLEDO balances)

Temperature: 22.7 °C to 22.8 °C, Humidity: 40 % to 41 %, Pressure: 770.2 mmHg to 770.8 mmHg

DATE RECEIVED: 03/22/2019

DATE OF TEST: 04/02/2019

Signing Authority

METROLOGIST: ANA MARIA FELICIANO  
FOOD AND STANDARDS DIVISION

Notes:

- (1) This report relates only to the items listed in this report at the time of test.
- (2) The uncertainties are calculated according to the Guide to the Expression of Uncertainty in Measurement, where the expanded uncertainty is  $k$  times the root sum square of the Type A and Type B uncertainties. The coverage factor ( $k$ ) defines a level of confidence of approximately 95 %.
- (3) The effect of air buoyancy has been evaluated and determined to be insignificant.
- (4) This report shall not be reproduced except in full, without written approval of the laboratory.
- (5) THE REPORT OF TEST IS INVALID WITHOUT THE OFFICIAL STATE OF CONNECTICUT WEIGHTS AND MEASURES SEAL AFFIXED.

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