



STATE OF CONNECTICUT
DEPARTMENT OF CONSUMER PROTECTION

Report of Test for: 47 - 50 POUND, 10 - 25 POUND CAST IRON 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: TOLEDO, FAIRBANKS, TROEMNER, HRS CO., HOWE, CARDINAL, UNKNOWN CT. TEST NO. 2019 - 59
 S/N: As below

The weights described above have been compared with the Standards of the State of Connecticut (Working Standards - Avoirdupois Sets F and H), traceable to the International System of Units (SI), through the Reports of Calibration Maine Test No. 7124ME and Test No. 7138ME, 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.

DENOMINATION	CLASS F TOLERANCE (± GRAM)	AS FOUND	AS LEFT	UNCERTAINTY (± GRAM)	K COVERAGE FACTOR
		CONVENTIONAL MASS CORRECTION (GRAM)	CONVENTIONAL MASS CORRECTION (GRAM)		
50 lb 200	2.3	-0.46	SAME	0.17	2.04
50 lb 201	2.3	-2.19	0.00	0.17	2.04
50 lb 202	2.3	-0.08	SAME	0.17	2.04
50 lb 203	2.3	-1.52	SAME	0.17	2.04
50 lb 204	2.3	-1.49	SAME	0.17	2.04
50 lb 205	2.3	-1.68	0.01	0.17	2.04
50 lb 206	2.3	0.03	SAME	0.17	2.04
50 lb 207	2.3	-0.99	SAME	0.17	2.04
50 lb 208	2.3	0.95	SAME	0.17	2.04
50 lb 209	2.3	-0.03	SAME	0.17	2.04
50 lb 210	2.3	-1.83	0.00	0.17	2.04
50 lb 211	2.3	-0.75	SAME	0.17	2.04
50 lb 212	2.3	-0.94	SAME	0.17	2.04
50 lb 213	2.3	-2.98	0.00	0.17	2.04
50 lb 214	2.3	0.51	SAME	0.17	2.04
50 lb 215	2.3	-0.16	SAME	0.17	2.04
50 lb 216	2.3	-1.52	SAME	0.17	2.04
50 lb 217	2.3	-0.31	SAME	0.17	2.04
50 lb 218	2.3	-0.40	SAME	0.17	2.04
50 lb 219	2.3	-0.08	SAME	0.17	2.04
50 lb 400	2.3	-0.77	SAME	0.17	2.04
50 lb 401	2.3	-0.80	SAME	0.17	2.04
50 lb 402	2.3	0.25	SAME	0.17	2.04
50 lb 403	2.3	-1.06	SAME	0.17	2.04
50 lb 404	2.3	-1.58	0.02	0.17	2.04
50 lb 405	2.3	-0.47	SAME	0.17	2.04
50 lb 406	2.3	-0.76	SAME	0.17	2.04
50 lb 407	2.3	-1.75	0.03	0.17	2.04
50 lb 408	2.3	-1.14	SAME	0.17	2.04
50 lb 409	2.3	-1.68	0.03	0.17	2.04



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DENOMINATION	CLASS F TOLERANCE (± GRAM)	AS FOUND	AS LEFT	UNCERTAINTY (± GRAM)	K COVERAGE FACTOR
		CONVENTIONAL MASS CORRECTION (GRAM)	CONVENTIONAL MASS CORRECTION (GRAM)		
50 lb 410	2.3	-0.72	SAME	0.17	2.04
50 lb 411	2.3	0.73	SAME	0.17	2.04
50 lb 412	2.3	-0.18	SAME	0.17	2.04
50 lb 413	2.3	-1.04	SAME	0.17	2.04
50 lb 414	2.3	-0.32	SAME	0.17	2.04
50 lb 415	2.3	-1.29	SAME	0.17	2.04
50 lb 416	2.3	-1.19	SAME	0.17	2.04
50 lb 417	2.3	0.00	SAME	0.17	2.04
50 lb 418	2.3	-2.46	0.03	0.17	2.04
50 lb 419	2.3	-2.00	0.04	0.17	2.04
50 lb 420	2.3	0.37	SAME	0.17	2.04
50 lb 421	2.3	0.50	SAME	0.17	2.04
50 lb 422	2.3	1.60	0.03	0.17	2.04
50 lb 423	2.3	-0.82	SAME	0.17	2.04
50 lb 424	2.3	-0.45	SAME	0.17	2.04
50 lb 425	2.3	-1.00	SAME	0.17	2.04
50 lb 426	2.3	0.72	SAME	0.17	2.04
25 lb 460	1.1	0.422	SAME	0.088	2.04
25 lb 461	1.1	0.052	SAME	0.088	2.04
25 lb 462	1.1	-0.548	SAME	0.088	2.04
25 lb 463	1.1	-0.278	SAME	0.088	2.04
25 lb 464	1.1	-0.488	SAME	0.088	2.04
25 lb 465	1.1	-0.818	0.002	0.088	2.04
25 lb 466	1.1	-0.278	SAME	0.088	2.04
25 lb 467	1.1	0.162	SAME	0.088	2.04
25 lb 468	1.1	0.372	SAME	0.088	2.04
25 lb 469	1.1	0.862	0.002	0.088	2.04

Test Procedure: SOP #8, MODIFIED SUBSTITUTION
Balances used: METTLER TOLEDO KA50-2
Temperature: 23.4 °C to 24.2 °C, Humidity: 45.2 % to 48.1 %

Signing Authority

DATE RECEIVED: 03/22/2019
DATE OF TEST: 03/25/2019

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.