



STATE OF MAINE
DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY
DIVISION OF QUALITY ASSURANCE AND REGULATIONS
28 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0028

PAUL R. LEPAGE
GOVERNOR

Walter E. Whitcomb
COMMISSIONER

Celeste Poulin
Director

REPORT OF CALIBRATION
MAINE TEST NUMBER 7302ME

Weight set: (2) 200 g
Rice Lake SN: 69M8 & 69M9, ASTM Class 1
Date of Report: August 30, 2018

SUBMITTED BY
Advanced Scale Inc.
13 Delta Drive Unit 6
Londonderry, NH 03053

The mass standards described above have been compared with standards of the State of Maine by double substitution and found to have mass values at time of test, as indicated in the following tabulation. The weights are stainless steel with a density of 7.95 g/cm^3 at 20 degrees C for air buoyancy correction. Weights were received in good condition.

Standards of the State of Maine are traceable to the National Institute of Standards and Technology through NH Test Number 2015-011. The Maine Metrology Laboratory is recognized at mass accuracy Echelon II by NIST, OWM under the "Laboratory Metrology Program" for 2018.

The uncertainties shown with reported values are calculated on the conventional mass values and expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic errors relative to the reference standard, including bias, and procedure used, and (2) Type A, random errors determined by the standard deviation of the measurement process. Type A and type B uncertainties are combined by the root sum squared method and multiplied by a coverage factor k ($k=2.13$) representing approximately a 95% confidence level. Magnetism screening was not conducted and is not represented in the uncertainty budget. All mass values have been determined as "conventional mass" with respect to stainless steel with a density of 8.0 g/cm^3 at 20 degrees C. The combined measurement uncertainty and result have been taken in to account when issuing statements of compliance. Weights found in an out of tolerance condition will have correction values bolded.

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PHONE: (207) 287-7587

FAX: (207) 287-7161

NVLAP Lab Code 200414-0

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Identifier & Nominal	Conventional Mass g	Conventional Mass Correction, mg	Uncertainty mg	ASTM Class 1 Tolerance, mg
69M8 - 200 g	200.000227	0.227	0.049	0.50
69M9 - 200 g *	200.000192	0.192	0.049	0.50

Data reduction sheets are on file at the laboratory. Values reported are "as found", no adjustments have been made. Calibrations performed by this laboratory comply with the requirements of ISO/EIC 17025-2005.

Laboratory environmental range:

Temperature: 19.31 °C to 19.32 °C

Relative humidity: 46.6 % to 47.2 %

Barometric pressure: 757.95 mmHg to 757.96 mmHg

Date Received: August 24, 2018

Date of test: August 30, 2018

Calibration due: August 31, 2019



Bradford Bachelder
Metrologist

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