

Traceable Certificate

201 Wolf Drive • P.O. Box 87 • Thorofare, NJ 08086-0087 • Phone: 856-686-1600 • Fax: 856-686-1601 • www.troemner.com • e-mail: troemner@troemner.com

Troemner, LLC
201 Wolf Dr.
Thorofare, NJ 08086

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Weight

ID Number 908
Serial Number 1401
Order Number CC
Certificate Number TESTTR18
Date Of Calibration 10-MAY-2018
Calibration Due Date 10-MAY-2019
As Found Out of Tolerance
As Left In Tolerance, Adjusted

Description of Weights: Analytical Weight Set

Material	Assumed Density at 20 °C	Range
Stainless Steel	7.85 g/cm ³	2g-50g
Stainless Steel	7.95 g/cm ³	50mg-20g
Aluminum	2.7 g/cm ³	1mg-10mg


Tested with Reference Standards Traceable to the National Institute of Standards & Technology through NIST Test Number 684/289871-17.

We certify that the weights listed are calibrated to ASTM E617-13 Class 1 tolerances.

The calibration of these weights is based on apparent mass vs material of density 8.0 g/cm³.

Nominal Mass Value	Notes	Serial Number	Correction before Calibration *	Correction after Calibration *	Tolerance (+ or -)	Uncertainty (+ or -)
50 g	F		0.100 mg	0.067 mg	0.120 mg	0.040 mg
20 g			0.040 mg	0.040 mg	0.074 mg	0.020 mg
20 g	*		-0.002 mg	-0.002 mg	0.074 mg	0.020 mg
5 g	F		0.026 mg	0.014 mg	0.034 mg	0.011 mg
2 g			0.010 mg	0.010 mg	0.034 mg	0.011 mg
2 g	*		0.001 mg	0.001 mg	0.034 mg	0.011 mg
1 g			0.014 mg	0.014 mg	0.034 mg	0.011 mg
500 mg			0.0013 mg	0.0013 mg	0.010 mg	0.0032 mg
200 mg			0.0049 mg	0.0049 mg	0.010 mg	0.0032 mg
100 mg			0.0009 mg	0.0009 mg	0.010 mg	0.0032 mg
50 mg			-0.0010 mg	-0.0010 mg	0.010 mg	0.0030 mg
10 mg			-0.0056 mg	-0.0056 mg	0.010 mg	0.0030 mg
5 mg			0.0025 mg	0.0025 mg	0.010 mg	0.0030 mg
2 mg	*		0.0044 mg	0.0044 mg	0.010 mg	0.0030 mg
2 mg	N		mg	0.0019 mg	0.010 mg	0.0030 mg
1 mg			0.0025 mg	0.0025 mg	0.010 mg	0.0030 mg

* Correction is defined as the difference between the mass value of a weight and its nominal value. A positive correction indicates that the mass value is greater than the nominal value by the amount of the correction.



Joseph Moran, Metrology Manager, Approved Signatory