

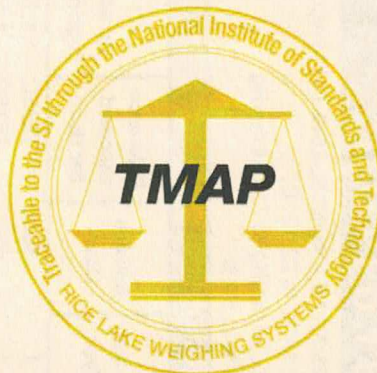
Traceable Certificate Number: 3899611
Contractor: BASTROP SCALE COMPANY
 PO BOX 2100
 BASTROP, TX 78602-9100

Purchase Order Number: 250502KB01
Client: BASTROP SCALE COMPANY
 192 HARMON RD
 BASTROP, TX 78602

Date Received: 02 Jun 2025
Date Calibrated: 05 Jun 2025 to 09 Jun 2025
Recalibration Date: 05 Jun 2026
NIST Certificate Number: 684/O-0000046697

If there are two NIST numbers, one or both may apply

Calibrated By: 28
Procedure: WI05-0095 Rev. E
Condition of Weights: Acceptable for Calibration
Description of Weights: 1 mg to 100 g Polished Weights, ASTM Class 1, S/N AP-1M89
Comments:



Key Notes

Finish	✱	Indicates the weight does not meet the finish requirements
Material	⊕	Indicates the weight does not meet the material requirements
New Wt	◇	Indicates new weight
Missing Wt	⬆	Indicates replaced missing weight with new weight
Damaged Wt	✕	Indicates replaced damaged weight
Replaced OOT	★	Indicates replaced out of tolerance weight
OOT	⊠	Indicates correction plus or minus Uncertainty greater than or equal to MPE
Magnetic Wt	★★	Indicates replaced magnetic weight
Design	⊗	Indicates the weight does not meet the design or shape requirements
Repainted	🔧	Indicates the weight was repainted after As Found obtained
Other	⬆	See comments above

Cleaning Levels

A	Dusted with brush or cloth
B	Spot cleaned with ethyl alcohol
C	Full surface cleaned with ethyl alcohol
D	Spot cleaned with non-alcohol solvent followed by ethyl alcohol
E	Full surface cleaned with non-alcohol solvent followed by ethyl alcohol
F	No cleaning performed

Material Abbreviations

AL	Aluminum	TA	Tantalum
SS	Stainless Steel	BR	Brass
CI	Cast Iron	PL	Platinum
IR	Iron	NS	Nickel Silver
MS	Mild Steel	OR	Other/Unknown

Check with your local state agency for certification of compliance on Legal-for-Trade items. The weight accuracy class is referenced in the Description of Weights. Unless otherwise noted, the weights calibrated meet the requirements of the accuracy class. Results relate only to weights calibrated. The Surface Finishes of weights are evaluated visually. Weights are screened for magnetism using work instruction WI05-0035 when they are new, when requested by the customer or when weights are suspected of not meeting specifications. Density if measured is measured using OIML R111-1 (2004) method A2. Conventional Mass is reported based on a reference density of 8.0 g/cm³. The Uncertainty of Measurement is included in the determination of Maximum Permissible Error (MPE) Pass/Fail Criteria. The specifications for Maximum Permissible Error (MPE) can be found in NIST Handbook 105-1 (2019), NIST Handbook 105-1 (1990), ASTM E617-23 or OIML R111-1 (2004), manufacturer specifications or customer specifications.

The Uncertainty assigned to the Conventional Mass values are the result of the root-sum-square of the type A and type B components, calculated in accordance with NIST SOP 29 and the Guide to the expression of uncertainty in measurement, with coverage factor ($k=2$), to express the expanded uncertainty with an approximate 95.45% confidence level. This report is not to be used to claim product certification, approval, or endorsement by NVLAP, NIST, A2LA, or any government agency. **This document and all data within, shall not be reproduced, except in full, without the written approval of Rice Lake Weighing Systems.**

Dan Demers, Metrologist



Prepared By:
 Rice Lake Weighing Systems® • PN 64784 • 6/25
 230 West Coleman Street • Rice Lake, WI 54868 • USA
 TEL: 715-234-9171 • FAX: 715-234-6967

Definitions: http://certs.ricelake.com/certs/0354_Term_Cert_Weight_Cal_Rev1.pdf

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09 Jun 2025
 Issued Date:



ISO/IEC 17025:2017 & ANSI/NCSL-Z540-1-1994 ACCREDITED

Traceable Certificate Number: 3899611

Client: BASTROP SCALE COMPANY

Date Calibrated: 05 Jun 2025 to 09 Jun 2025

Temperature Range: 22.15 °C to 22.19 °C

Pressure Range: 722.26 mmHg to 734.64 mmHg

Relative Humidity Range: 51 % to 57 %

As Left Data (As Found Data is undifferentiated from As Left Data unless listed in As Found Data table)

Nominal Value	Unique ID	True Mass (Same UOM as Nom.)	True Mass Corr. (mg)	Conv. Mass (Same UOM as Nom.)	Conv. Mass Corr. (mg)	(k=2) Unc. (± mg)	MPE (± mg)	MPE Pass (Y=Pass N=Fail)	Assumed Density (g/cm ³)	Assumed Material	Const. Type	Balance Used	Reference Standard Set Used	Air Density (mg/cm ³)	Clean Level
1 mg AP-1M89		1.00593	0.00593	1.00593	0.00593	0.00097	0.010	Y	7.95	SS	I	503Q	T535Q	1.1303	A
2 mg AP-1M89		2.00247	0.00247	2.00246	0.00246	0.00088	0.010	Y	7.95	SS	I	503Q	T535Q	1.1296	A
2 mg AP-1M89.		2.00449	0.00449	2.00449	0.00449	0.00088	0.010	Y	7.95	SS	I	503Q	T535Q	1.1300	A
5 mg AP-1M89		5.00093	0.00093	5.00093	0.00093	0.00085	0.010	Y	7.95	SS	I	503Q	T535Q	1.1301	A
10 mg AP-1M89		9.9948	-0.0052	9.9948	-0.0052	0.0012	0.010	Y	7.95	SS	I	503Q	T535Q	1.1298	A
20 mg AP-1M89		20.0014	0.0014	20.0014	0.0014	0.0010	0.010	Y	7.95	SS	I	503Q	T535Q	1.1302	A
20 mg AP-1M89.		19.9943	-0.0057	19.9943	-0.0057	0.0010	0.010	Y	7.95	SS	I	503Q	T535Q	1.1300	A
50 mg AP-1M89		50.00148	0.00148	50.00143	0.00143	0.00072	0.010	Y	7.95	SS	I	2022Q	T535Q	1.1430	A
100 mg AP-1M89		99.99661	-0.00339	99.99652	-0.00348	0.00093	0.010	Y	7.95	SS	I	2022Q	T535Q	1.1430	A
200 mg AP-1M89		199.99778	-0.00222	199.99760	-0.00240	0.00079	0.010	Y	7.95	SS	I	2022Q	T535Q	1.1430	A
200 mg AP-1M89.		200.00023	0.00023	200.00004	0.00004	0.00079	0.010	Y	7.95	SS	I	2022Q	T535Q	1.1430	A
500 mg AP-1M89		500.00565	0.00565	500.00518	0.00518	0.00093	0.010	Y	7.95	SS	I	2022Q	T535Q	1.1430	A
1 g AP-1M89		1.0000012	0.0012	1.0000003	0.0003	0.0011	0.034	Y	7.95	SS	I	2022Q	T535Q	1.1430	A
2 g AP-1M89		1.9999847	-0.0153	1.9999828	-0.0172	0.0013	0.034	Y	7.95	SS	II	2022Q	T535Q	1.1430	A
2 g AP-1M89.		1.9999963	-0.0037	1.9999944	-0.0056	0.0013	0.034	Y	7.95	SS	II	2022Q	T535Q	1.1430	A
5 g AP-1M89		5.0000020	0.0020	5.00000173	0.0173	0.0030	0.034	Y	7.95	SS	II	2022Q	T535Q	1.1430	A
10 g AP-1M89		10.0000048	0.0048	9.9999953	-0.0047	0.0057	0.050	Y	7.95	SS	II	2060Q	U520Q	1.1492	A
20 g AP-1M89		20.0000198	0.0198	20.0000009	0.0009	0.0053	0.074	Y	7.95	SS	II	2060Q	U520Q	1.1492	A
20 g AP-1M89.		20.0000388	0.0388	20.00000199	0.0199	0.0053	0.074	Y	7.95	SS	II	2060Q	U520Q	1.1492	A
50 g AP-1M89		50.000068	0.068	50.0000021	0.021	0.012	0.12	Y	7.95	SS	II	2060Q	U520Q	1.1492	A
100 g AP-1M89		100.000029	0.029	99.9999934	-0.066	0.022	0.25	Y	7.95	SS	II	2060Q	U520Q	1.1492	A