



TEXAS DEPARTMENT OF AGRICULTURE

COMMISSIONER SID MILLER

Metrology Laboratory - 1258 CR 226 / P.O. Box 1518 - Giddings, Texas 78942

Phone: (979) 542-3231 - Fax: (888) 205-7741

Calibration Number

G-00009822

CALIBRATION CERTIFICATE

For

16 - 1000 lb Weights

11 - 50 lb Weights

1 - Weight Kit

Submitted By

Bastrop Scale Company

PO Drawer 2100

Bastrop, Texas 78602

The measurement results of the Texas Department of Agriculture, Giddings Metrology Laboratory are traceable to the International System of Units (SI) through the measurements at the National Institute of Standards and Technology (NIST) and are a part of comprehensive measurement assurance program for ensuring continuous accuracy and measurement traceability within the level of the uncertainty reported by this laboratory. The laboratory calibration number above is the unique report number to be used in referencing measurement traceability for artifacts identified in this certificate only. The data applies only to the artifacts identified in this certificate at the time of test. Calibration certificate shall not be reproduced, except in full, without written laboratory approval.

Calibration Date: 01/29/2026	Received Date: 01/28/2026
Calibration Due: 01/31/2027	Condition Received: Acceptable
Issue Date: 02/02/2026	
Average Temperature: 21.57 °C	
Average Humidity: 44.02 %	
Procedure: NISTIR 6969, SOP No. 8, Modified Substitution (Rev. 2019)	
Mass Standards: Giddings Metrology Laboratory Mass Echelon III Standards	

Only compliance with tolerance specifications were evaluated for items listed on this certificate (failing values are indicated in the table, if any.) The uncertainty of the measurement was taken into account when making this statement of compliance. The weights were not evaluated for conformance with technical requirements (design, construction, material, magnetism, density, surface finish and marking.) Tolerances were taken from NIST 105-1 (1990), ASTM E617 (2023) or OIML R111 (2004).

The combined standard uncertainty consists of both Type A and Type B components, including the standard uncertainty reported for the standard, the standard uncertainty for the measurement process, and a component of uncertainty to account for any observed deviations that have a significant effect on the calibration combined, using the root sum square method. Air buoyancy was considered negligible and was not included. The uncertainty does not include contribution due to magnetism or irregular conditions on the surface of the weights. The expanded uncertainty given is in compliance with BIPM JCGM 100:2008, Guide to the Expression of Uncertainty in Measurement (GUM), 2008 and follows NISTIR 6969, SOP 29 (2019), with a variable k (coverage factor) representing a 95.45 % confidence level.

Note:

A positive correction indicates that the weight is heavier than the stated nominal value.

A negative correction indicates that the weight is lighter than the stated nominal value.

Conversions:

milligram (mg) to kilogram (kg): kg = mg / 1000000

milligram (mg) to gram (g): g = mg / 1000

milligram (mg) to pound (lb): lb = mg x 0.000002204622621848776

milligram (mg) to ounce (oz): oz = mg x 0.00003527396194958041

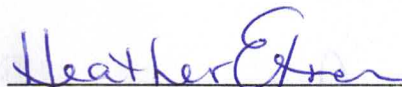
This certificate must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.


Lisa Corn

Manager for Metrology Laboratory
Agency Representative



NVLAP Lab Code 600376-0



Heather Exner
Metrologist
Approved Signatory



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Bastrop, Texas 78602

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Average Humidity: 44.02 %
SOP Used: NISTIR 6969, SOP No. 8, Modified Substitution

Observations:

The artifacts described below have been compared to the standards of the State of Texas and were found to have the following mass corrections:

Nominal Value	Serial	ID #	As Found Mass Correction (mg)	As Left Mass Correction (mg)	Expanded Uncertainty (mg)	k factor	Tolerance Class	Tolerance Status	Tolerance (mg)
1000 lb	8HTV	-	5100	5100	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	8HTW	-	-17300	-17300	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	8HTX	-	4600	4600	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	8HTY	-	5400	5400	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	8HTZ	-	6300	6300	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	8HU0	-	12200	12200	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	8HU1	-	-3300	-3300	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	8HU2	-	-9000	-9000	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	8HU3	-	5300	5300	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	8HU4	-	14500	14500	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	8HU5	-	21700	21700	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	8HU6	-	29800	29800	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	8HU7	-	14400	14400	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	8HU8	-	39500	-400	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	8HU9	-	22600	22600	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	8HUA	-	30300	30300	6200	2.009	ASTM 6	In Tolerance	45000
50 lb	8HUB	-	-2740	70	300	2.002	ASTM 6	In Tolerance	2300
50 lb	8HUC	-	-1880	60	300	2.002	ASTM 6	In Tolerance	2300
50 lb	8HUD	-	-2340	20	300	2.002	ASTM 6	In Tolerance	2300
50 lb	8HUE	-	-2920	20	300	2.002	ASTM 6	In Tolerance	2300
50 lb	8HUF	-	-2120	40	300	2.002	ASTM 6	In Tolerance	2300
50 lb	8HUG	-	-1670	-1670	300	2.002	ASTM 6	In Tolerance	2300
50 lb	8HUH	-	-2110	80	300	2.002	ASTM 6	In Tolerance	2300
50 lb	8HUI	-	-510	-510	300	2.002	ASTM 6	In Tolerance	2300
50 lb	8HUI	-	-2910	70	300	2.002	ASTM 6	In Tolerance	2300
50 lb	8HUK	-	-1530	-1530	300	2.002	ASTM 6	In Tolerance	2300
50 lb	BS27	-	-1670	-1670	300	2.002	NIST F	In Tolerance	2300
10 lb	5M6U	-	69	69	54	2.014	NIST F	In Tolerance	450
10 lb	5M6U	*	131	131	54	2.014	NIST F	In Tolerance	450
5 lb	5M6U	-	73	73	28	2.002	NIST F	In Tolerance	230

• denotes a weight that was adjusted per NISTIR 6969, SOP 8.

▲ denotes a weight that was rejected.

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Nominal Value	Serial	ID #	As Found Mass Correction (mg)	As Left Mass Correction (mg)	Expanded Uncertainty (mg)	k factor	Tolerance Class	Tolerance Status	Tolerance (mg)
2 lb	5M6U	-	43	43	11	2.01	NIST F	In Tolerance	91
2 lb	5M6U	*	36	36	11	2.01	NIST F	In Tolerance	91
1 lb	5M6U	-	21.4	21.4	8.3	2.004	NIST F	In Tolerance	70
8 oz	5M6U	-	9.0	9.0	5.4	2.014	NIST F	In Tolerance	45
4 oz	6M6U	-	8.1	8.1	2.7	2.007	NIST F	In Tolerance	23
2 oz	6M6U	-	1.4	1.4	1.3	2.008	NIST F	In Tolerance	11
1 oz	6M6U	-	2.38	2.38	0.65	2.004	NIST F	In Tolerance	5.4
1/2 oz	6M6U	-	0.68	0.68	0.33	2.009	NIST F	In Tolerance	2.8
1/4 oz	6M6U	-	0.68	0.68	0.20	2.012	NIST F	In Tolerance	1.7
1/8 oz	6M6U	-	0.25	0.25	0.16	2.015	NIST F	In Tolerance	1.3
1/16 oz	6M6U	-	0.39	0.39	0.13	2.013	NIST F	In Tolerance	1.1
1/32 oz	6M6U	-	0.23	0.23	0.10	2.014	NIST F	In Tolerance	0.87
1/32 oz	6M6U	*	0.32	0.32	0.10	2.014	NIST F	In Tolerance	0.87

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