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-000009611

CALIBRATION CERTIFICATE

For
5 - 1000 lb Weights
8 - 50 lb Weights
1 - Weight Kit

Submitted By
Bastrop Scale Company, Incorporated
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:	**08/08/2025**	**Received Date:**	**08/07/2025**
Calibration Due:	**08/31/2026**	**Condition Received:**	**Acceptable**
Issue Date:	**08/08/2025**		
Average Temperature:	**21.23 °C**		
Average Humidity:	**50.61 %**		
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 0.00000220462262184877 6
milligram (mg) to ounce (oz):	oz	=	mg x 0.0000352739619495804 1

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

NVLAP CALIBRATION
NVLAP Lab Code 600376-0

Lisa Corn
Manager for Metrology Laboratory
Agency Representative

Kirt Weyand
Metrologist
Approved Signatory

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PO Drawer 2100
Bastrop, Texas 78602

Average Temperature: 21.23 °C
Average Humidity: 50.61 %
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	BS622	-	-31600	-31600		6400	2.012	NIST F	In Tolerance	45000
1000 lb	BS6181	-	-33000	-33000		6400	2.012	NIST F	In Tolerance	45000
1000 lb	BS612	-	-26800	-26800		6400	2.012	NIST F	In Tolerance	45000
1000 lb	953101C	-	9500	9500		6400	2.012	NIST F	In Tolerance	45000
1000 lb	BS621	-	-37100	100	•	6400	2.012	NIST F	In Tolerance	45000
50 lb	BS116	-	-740	-740		320	2.003	NIST F	In Tolerance	2300
50 lb	BS134	-	-2160	10	•	320	2.003	NIST F	In Tolerance	2300
50 lb	BS6211	-	2450	40	•	320	2.003	NIST F	In Tolerance	2300
50 lb	BS47	-	-180	-180		320	2.003	NIST F	In Tolerance	2300
50 lb	BS138	-	-600	-600		320	2.003	NIST F	In Tolerance	2300
50 lb	BS6218	-	-2140	0	•	320	2.003	NIST F	In Tolerance	2300
50 lb	BS73	-	-200	-200		320	2.003	NIST F	In Tolerance	2300
50 lb	BS130	-	-1880	-20	•	320	2.003	NIST F	In Tolerance	2300
5 lb	21832	A	49	49		28	2.002	NIST F	In Tolerance	230
5 lb	21832	B	59	59		28	2.002	NIST F	In Tolerance	230
5 lb	21832	C	40	40		28	2.002	NIST F	In Tolerance	230
5 lb	21832	D	50	50		28	2.002	NIST F	In Tolerance	230
5 lb	21832	E	57	57		28	2.002	NIST F	In Tolerance	230
1 lb	21832	1	14.8	14.8		8.3	2.004	NIST F	In Tolerance	70
1 lb	21832	A	4.2	4.2		8.3	2.004	NIST F	In Tolerance	70
1 lb	21832	B	14.2	14.2		8.3	2.004	NIST F	In Tolerance	70
1 lb	21832	C	2.4	2.4		8.3	2.004	NIST F	In Tolerance	70
1 lb	21832	E	10.7	10.7		8.3	2.004	NIST F	In Tolerance	70
8 oz	21832	-	11.9	11.9		5.4	2.014	NIST F	In Tolerance	45
0.2 lb	21832	-	5.0	5.0		2.1	2.013	NIST F	In Tolerance	18
0.2 lb	21832	*	4.4	4.4		2.1	2.013	NIST F	In Tolerance	18
0.1 lb	21832	-	2.2	2.2		1.1	2.005	NIST F	In Tolerance	9.1
0.05 lb	21832	-	0.35	0.35		0.54	2.023	NIST F	In Tolerance	4.5
0.02 lb	21832	-	-1.30	-1.30		0.22	2.017	NIST F	In Tolerance	1.8
0.02 lb	21832	*	0.24	0.24		0.22	2.017	NIST F	In Tolerance	1.8

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

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Agency Representative

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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)
0.01 lb	21832	-	0.57	0.57	0.18	2.022	NIST F	In Tolerance	1.5
0.005 lb	21832	-	0.52	0.52	0.15	2.013	NIST F	In Tolerance	1.2
0.002 lb	21832	-	0.44	0.44	0.11	2.023	NIST F	In Tolerance	0.87
0.002 lb	21832	*	0.41	0.41	0.11	2.023	NIST F	In Tolerance	0.87
0.001 lb	21832	-	0.234	0.234	0.084	2.024	NIST F	In Tolerance	0.7

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