



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

Test Number
G-000006769

CALIBRATION CERTIFICATE

FOR
3 - Weight Kits

SUBMITTED BY
Bastrop Scale Company
P.O. Drawer 2100
Bastrop, Texas 78602

The standards and measurements of the Texas Department of Agriculture, Giddings Metrology Laboratory, are traceable to the SI and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of the uncertainty reported by this laboratory. The data below applies only to the artifacts identified in this report at the time of test. Only compliance with tolerance specifications were evaluated.

Test Date: 09/18/2018	Received Date: 09/14/2018
Calibration Due: 09/30/2019	Condition Received: Acceptable
Issue Date: 09/20/2018	
Temperature Range: 18 °C to 27 °C	
Relative Humidity Range: 40 % to 60 %	
Procedure: NISTIR 6969, SOP No. 8, Modified Substitution	
Balances: CCE5003-SN:21411465, CCE2004-SN:28601871, MSA225S-SN:28512376, CCE36-SN:28601985	
Mass Standards: Giddings Metrology Laboratory Mass Echelon III Standards	

The expanded standard uncertainty includes 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. No component is included in the expanded uncertainty for the effects of magnetism. The expanded uncertainty given is in compliance with BIPM JCGM 100:2008, Guide to the Expression of Uncertainty in Measurement (GUM), 2008, with a variable *k* representing a 95.45 % confidence level. Class F tolerance values are taken from NIST HB 105-1.

This report is not to be used to claim product endorsement by the Texas Department of Agriculture or any agency of the U.S. Government. This document shall not be reproduced, except in full, without the written approval of the Texas Department of Agriculture Metrology Laboratory.

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 0.00002204622621848776
milligram (mg) to ounce (oz):	oz = mg x 0.00003527396194958041

Philip Lockwood
Manager for Metrology Laboratory
Agency Representative

Preston Adachi
Metrologist
Legal Signatory



TEXAS DEPARTMENT OF AGRICULTURE

COMMISSIONER SID MILLER

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

CALIBRATION CERTIFICATE

For

3 - Weight Kits

Test Number

G-000006769

Test Completed

09/18/2018

Date Due

09/30/2019

Submitted by

Bastrop Scale Company

P.O. Drawer 2100

Bastrop, Texas 78602

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

Temperature Range: 18 °C to 27 °C

Relative Humidity Range: 40 % to 60 %

SOP Used: NISTIR 6969, SOP No. 8, Modified Substitution

Table with 7 columns: Nominal Value, Serial / ID #, As Found Mass Correction (mg), As Left Mass Correction (mg), Expanded Uncertainty (mg), Tolerance Class, Tolerance (mg). Rows list various weight kits (5 lb, 5 kg, 1 lb, 8 oz, 2 kg, 1 kg, 500 g) and their corresponding mass corrections and tolerances.

* denotes a weight that was adjusted IAW NISTIR 6969, SOP 8.

■ denotes a weight that was rejected.

The expanded uncertainty given is in compliance with BIPM JCGM 100:2008, Guide to the Expression of Uncertainty in Measurement (GUM), 2008, with a variable k representing a 95.45 % confidence level.

This report is not to be used to claim product endorsement by the Texas Department of Agriculture or any agency of the U.S. Government. This document shall not be reproduced, except in full, without the written approval of the Texas Department of Agriculture Metrology Laboratory.

Handwritten signature of Philip Lockwood

Philip Lockwood
Manager for Metrology Laboratory
Agency Representative

Handwritten signature of Preston Adachi

Preston Adachi
Metrologist
Legal Signatory



TEXAS DEPARTMENT OF AGRICULTURE
COMMISSIONER SID MILLER
Metrology Laboratory - 1258 CR 226 / P.O. Box 1518 - Giddings, Texas 78942

CALIBRATION CERTIFICATE

For

3 - Weight Kits

Test Completed
09/18/2018

Test Number
G-000006769

Date Due
09/30/2019

Submitted by
Bastrop Scale Company
P.O. Drawer 2100
Bastrop, Texas 78602

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

Temperature Range: 18 °C to 27 °C
Relative Humidity Range: 40 % to 60 %
SOP Used: NISTIR 6969, SOP No. 8, Modified Substitution

Nominal Value	Serial / ID #	As Found	As Left	Expanded	Tolerance	Tolerance
		Mass Correction (mg)	Mass Correction (mg)	Uncertainty (mg)	Class	(mg)
500 g	6A27 E	14.2	14.2	8.4	F	70
.2 lb	6A25 -	7.3	7.3	2.1	F	18
.2 lb	6A25 *	3.5	3.5	2.1	F	18
.2 lb	6A26 -	4.9	4.9	2.1	F	18
.2 lb	6A26 *	5.4	5.4	2.1	F	18
.1 lb	6A25 -	2.8	2.8	1.1	F	9.1
.1 lb	6A26 -	1.2	1.2	1.1	F	9.1
.05 lb	6A25 -	1.16	1.16	0.53	F	4.5
.05 lb	6A26 -	1.17	1.17	0.53	F	4.5
200 g	6A27 -	9.8	9.8	4.7	F	40
200 g	6A27 *	9.0	9.0	4.7	F	40
100 g	6A27 -	4.5	4.5	2.3	F	20
50 g	6A27 -	4.4	4.4	1.2	F	10
.02 lb	6A25 -	0.20	0.20	0.21	F	1.8
.02 lb	6A25 *	0.78	0.78	0.21	F	1.8
.02 lb	6A26 -	0.75	0.75	0.21	F	1.8
.02 lb	6A26 *	0.16	0.16	0.21	F	1.8
.01 lb	6A25 -	0.60	0.60	0.18	F	1.5
.01 lb	6A26 -	0.60	0.60	0.18	F	1.5
.005 lb	6A25 -	0.80	0.80	0.15	F	1.2
.005 lb	6A26 -	0.72	0.72	0.15	F	1.2
.002 lb	6A25 -	0.46	0.46	0.10	F	0.87
.002 lb	6A25 *	0.39	0.39	0.10	F	0.87
.002 lb	6A26 -	0.32	0.32	0.10	F	0.87
.002 lb	6A26 *	0.18	0.18	0.10	F	0.87
.001 lb	6A25 -	0.388	0.388	0.083	F	0.70
.001 lb	6A26 -	0.291	0.291	0.083	F	0.70
20 g	6A27 -	1.02	1.02	0.47	F	4.0
20 g	6A27 *	1.25	1.25	0.47	F	4.0
10 g	6A27 -	0.50	0.50	0.23	F	2.0
5 g	6A27 -	0.34	0.34	0.18	F	1.5

* denotes a weight that was adjusted IAW NISTIR 6969, SOP 8.

■ denotes a weight that was rejected.

The expanded uncertainty given is in compliance with BIPM JCGM 100:2008, Guide to the Expression of Uncertainty in Measurement (GUM), 2008, with a variable *k* representing a 95.45 % confidence level.

This report is not to be used to claim product endorsement by the Texas Department of Agriculture or any agency of the U.S. Government. This document shall not be reproduced, except in full, without the written approval of the Texas Department of Agriculture Metrology Laboratory.

Philip Lockwood
Manager for Metrology Laboratory
Agency Representative

Preston Adachi
Metrologist
Legal Signatory



TEXAS DEPARTMENT OF AGRICULTURE
COMMISSIONER SID MILLER
Metrology Laboratory - 1258 CR 226 / P.O. Box 1518 - Giddings, Texas 78942

CALIBRATION CERTIFICATE

For

3 - Weight Kits

Test Completed
09/18/2018

Test Number
G-000006769

Date Due
09/30/2019

Submitted by
Bastrop Scale Company
P.O. Drawer 2100
Bastrop, Texas 78602

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

Temperature Range: 18 °C to 27 °C
Relative Humidity Range: 40 % to 60 %
SOP Used: NISTIR 6969, SOP No. 8, Modified Substitution

Nominal Value	Serial / ID #	As Found Mass Correction (mg)	As Left Mass Correction (mg)	Expanded Uncertainty (mg)	Tolerance Class	Tolerance (mg)
2 g	6A27 -	0.19	0.19	0.13	F	1.1
2 g	6A27 *	0.34	0.34	0.13	F	1.1
1 g	6A27 -	0.25	0.25	0.11	F	0.90

❖ denotes a weight that was adjusted IAW NISTIR 6969, SOP 8.

■ denotes a weight that was rejected.

The expanded uncertainty given is in compliance with BIPM JCGM 100:2008, Guide to the Expression of Uncertainty in Measurement (GUM), 2008, with a variable *k* representing a 95.45 % confidence level.

This report is not to be used to claim product endorsement by the Texas Department of Agriculture or any agency of the U.S. Government. This document shall not be reproduced, except in full, without the written approval of the Texas Department of Agriculture Metrology Laboratory.

Philip Lockwood
Manager for Metrology Laboratory
Agency Representative

Preston Adachi
Metrologist
Legal Signatory