



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-000006207

CALIBRATION CERTIFICATE

FOR
 26 - 1000 lb, 3 - 50 lb
 1 - Weight Kit

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.

Test Date: 08/02/2017
Calibration Due: 08/31/2018

Received Date: 08/01/2017
Condition Received: Acceptable

Temperature Range: 18 °C to 27 °C
Relative Humidity Range: 40 % to 60 %

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

Balances: CCS600K-SN:21405144, CCE60K2-SN:26803155, 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.

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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): $lb = mg \times 0.00002204622621848776$

milligram (mg) to ounce (oz): $oz = mg \times 0.00003527396194958041$

Philip Lockwood
 Manager for Metrology Laboratory
 Agency Representative

Preston Adachi
 Metrologist
 Legal Signatory



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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)
1000 lb	BS6181 -	-16700	-16700	7100	F	45000
1000 lb	BS622 -	-41700	1300 ❖	7100	F	45000
1000 lb	BS6261 -	1300	1300	7100	F	45000
1000 lb	BS621 -	-10700	-10700	7100	F	45000
1000 lb	BS612 -	300	300	7100	F	45000
1000 lb	BS6251 -	13300	13300	7100	F	45000
1000 lb	1014 -	-700	-700	7100	F	45000
1000 lb	1002 -	-81700	-700 ❖	7100	F	45000
1000 lb	1005 -	-26700	-26700	7100	F	45000
1000 lb	1011 -	-6700	-6700	7100	F	45000
1000 lb	1018 -	-5700	-5700	7100	F	45000
1000 lb	1001 -	-8700	-8700	7100	F	45000
1000 lb	1012 -	45300	-2700 ❖	7100	F	45000
1000 lb	1010 -	-55700	-700 ❖	7100	F	45000
1000 lb	1006 -	6300	6300	7100	F	45000
1000 lb	1015 -	-23700	-23700	7100	F	45000
1000 lb	1017 -	2300	2300	7100	F	45000
1000 lb	1016 -	-25700	-25700	7100	F	45000
1000 lb	1003 -	-58700	-3700 ❖	7100	F	45000
1000 lb	1019 -	-11700	-11700	7100	F	45000
1000 lb	1008 -	-50700	-1700 ❖	7100	F	45000
1000 lb	1004 -	19300	19300	7100	F	45000
1000 lb	1007 -	-75700	-1700 ❖	7100	F	45000
1000 lb	1009 -	2300	2300	7100	F	45000
1000 lb	1013 -	-23700	-23700	7100	F	45000
1000 lb	1020 -	-42700	-700 ❖	7100	F	45000
50 lb	BS134 -	460	460	280	F	2300
50 lb	BS47 -	570	570	280	F	2300
50 lb	BS116 -	4900	50 ❖	280	F	2300
5 lb	00021832 1	52	52	28	F	230
5 lb	00021832 2	49	49	28	F	230

❖ 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.

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Temperature Range: 18 °C to 27 °C
Relative Humidity Range: 40 % to 60 %
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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 weights and their corresponding mass corrections and uncertainties.

❖ 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.

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