



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-000006390

CALIBRATION CERTIFICATE

AMENDED

FOR

6 - 1000 lb, 50 - 50 lb

Test Weights

6 - 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: 01/31/2018

Calibration Due: 01/31/2019

Received Date: 01/30/2018

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 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 - AMENDED

For

6 - 1000 lb, 50 - 50 lb
 Test Weights
 6 - Weight Kits

Test Number
 G-000006390

Test Completed
 01/31/2018

Date Due
 01/31/2019

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)
1000 lb	1RJ4 -	13200	13200	7800	F	45000
1000 lb	1RJ2 -	35200	WET INTERNALS ■	7800	F	45000
1000 lb	1RJ1 -	-37800	200 ❖	7800	F	45000
1000 lb	1RJ3 -	28200	28200	7800	F	45000
1000 lb	1RJ6 -	-18800	-18800	7800	F	45000
1000 lb	1RJ5 -	-37800	-10800 ❖	7800	F	45000
50 lb	BS 6202	-130	-130	280	F	2300
50 lb	BS 139	-2890	60 ❖	280	F	2300
50 lb	BS 23	-1490	-1490	280	F	2300
50 lb	BS 25	-1920	-10 ❖	280	F	2300
50 lb	BS 118	-1780	10 ❖	280	F	2300
50 lb	BS 6203	-2270	10 ❖	280	F	2300
50 lb	BS 128	-1260	-1260	280	F	2300
50 lb	BS 6215	-1860	40 ❖	280	F	2300
50 lb	BS 129	-2150	20 ❖	280	F	2300
50 lb	BS 130	-2750	0 ❖	280	F	2300
50 lb	BS 6204	-8180	50 ❖	280	F	2300
50 lb	BS 48	-3180	30 ❖	280	F	2300
50 lb	BS 641	150	150	280	F	2300
50 lb	BS 132	-640	-640	280	F	2300
50 lb	BS 137	-1520	-1520	280	F	2300
50 lb	BS 127	-2560	50 ❖	280	F	2300
50 lb	BS 6218	-2870	40 ❖	280	F	2300
50 lb	BS 18	-3290	40 ❖	280	F	2300
50 lb	BS 630	-2110	70 ❖	280	F	2300
50 lb	BS 635	-1730	-10 ❖	280	F	2300
50 lb	BS 6207	100	100	280	F	2300
50 lb	BS 11	-590	-590	280	F	2300
50 lb	BS 41	-850	-850	280	F	2300
50 lb	BS 42	-1700	-1700	280	F	2300
50 lb	BS 133	280	280	280	F	2300

❖ 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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6 - Weight Kits

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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)
50 lb	BS 26	-890	-890	280	F	2300
50 lb	BS 136	-560	-560	280	F	2300
50 lb	BS 634	1690	1690	280	F	2300
50 lb	BS 628	-680	-680	280	F	2300
50 lb	BS 633	3320	20 ❖	280	F	2300
50 lb	BS 646	-1630	-1630	280	F	2300
50 lb	BS 135	-1070	-1070	280	F	2300
50 lb	BS 80	-3040	60 ❖	280	F	2300
50 lb	BS 144	580	580	280	F	2300
50 lb	BS 639	1350	1350	280	F	2300
50 lb	BS 15	-1140	-1140	280	F	2300
50 lb	BS 6212	-1930	-10 ❖	280	F	2300
50 lb	BS 6210	8780	50 ❖	280	F	2300
50 lb	BS 6199	3890	WET INTERNALS ■	280	F	2300
50 lb	BS 637	310	310	280	F	2300
50 lb	BS 138	570	570	280	F	2300
50 lb	BS 73	-3960	30 ❖	280	F	2300
50 lb	BS 642	7290	30 ❖	280	F	2300
50 lb	BS 22	-2270	70 ❖	280	F	2300
50 lb	BS 78	-5520	FROZEN PLUG ■	280	F	2300
50 lb	BS 36	-340	-340	280	F	2300
50 lb	BS 143	-6070	50 ❖	280	F	2300
50 lb	BS 636	150	150	280	F	2300
50 lb	BS 6211	5420	80 ❖	280	F	2300
50 lb	BS 640	-1760	-10 ❖	280	F	2300
10 lb	BS6179 A	110	110	62	F	450
10 lb	BS6179 B	100	100	62	F	450
5 lb	BS97 A	-91	-91	28	F	230
5 lb	BS97 B	-5	-5	28	F	230
5 lb	BS97 C	1	1	28	F	230
5 lb	BS97 D	-77	-77	28	F	230

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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)
5 lb	BS97 E	-90	-90	28	F	230
5 lb	4N8K A	72	72	28	F	230
5 lb	4N8K B	73	73	28	F	230
5 lb	4N8K C	79	79	28	F	230
5 lb	4N8K D	82	82	28	F	230
5 lb	4N8K E	82	82	28	F	230
5 lb	3NDQ 1	68	68	28	F	230
5 lb	3NDQ 2	72	72	28	F	230
5 lb	3NDQ 4	63	63	28	F	230
5 lb	3NDQ 5	67	67	28	F	230
5 lb	3NDQ 5B	66	66	28	F	230
5 lb	BS6179 -	67	67	28	F	230
5 kg	3DNS -	143	143	59	F	500
5 kg	3DNS A	94	94	59	F	500
5 kg	3DNS B	68	68	59	F	500
2 lb	BS6179 A	27	27	13	F	91
2 lb	BS6179 B	37	37	13	F	91
1 lb	BS6179 -	16.2	16.2	8.5	F	70
1 lb	4N8K A	13.3	13.3	8.5	F	70
1 lb	4N8K B	18.2	18.2	8.5	F	70
1 lb	4N8K C	6.5	6.5	8.5	F	70
1 lb	4N8K D	19.0	19.0	8.5	F	70
1 lb	4N8K E	18.6	18.6	8.5	F	70
1 lb	BS97 A	15.9	15.9	8.5	F	70
1 lb	BS97 B	-14.3	-14.3	8.5	F	70
1 lb	BS97 C	1.5	1.5	8.5	F	70
1 lb	BS97 D	-1.9	-1.9	8.5	F	70
1 lb	BS97 E	6.9	6.9	8.5	F	70
1 lb	3NDQ 1	16.4	16.4	8.5	F	70
1 lb	3NDQ 2	24.8	24.8	8.5	F	70
1 lb	3NDQ 3	21.5	21.5	8.5	F	70

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

■ denotes a weight that was rejected.

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Philip Lockwood
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Agency Representative

Preston Adachi
Metrologist
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6 - 1000 lb, 50 - 50 lb

Test Weights

6 - Weight Kits

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Test Completed

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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)
1 lb	3NDQ 4	16.5	16.5	8.5	F	70
1 lb	3NDQ 5	25.7	25.7	8.5	F	70
8 oz	3NDQ -	13.7	13.7	5.4	F	45
8 oz	BS97 -	12.0	12.0	5.4	F	45
8 oz	4N8K -	16.6	16.6	5.4	F	45
8 oz	BS6179 -	15.2	15.2	5.4	F	45
2 kg	3DNS -	51	51	23	F	200
2 kg	3DNS *	71	71	23	F	200
2 kg	4N8L A	46	46	23	F	200
2 kg	4N8L B	72	72	23	F	200
1 kg	3DNS -	25	25	12	F	100
1 kg	4N8L -	29	29	12	F	100
500 g	3DNS -	29.7	29.7	8.4	F	70
500 g	4N8L A	23.7	23.7	8.4	F	70
500 g	4N8L B	26.3	26.3	8.4	F	70
500 g	4N8L C	26.2	26.2	8.4	F	70
500 g	4N8L D	22.8	22.8	8.4	F	70
500 g	4N8L E	18.2	18.2	8.4	F	70
4 oz	3NDQ -	7.8	7.8	2.7	F	23
4 oz	BS97 -	-0.6	-0.6	2.7	F	23
2 oz	3NDQ -	4.9	4.9	1.3	F	11
2 oz	BS97 -	2.5	2.5	1.3	F	11
1 oz	3NDQ -	2.20	2.20	0.68	F	5.7
1 oz	BS97 -	1.31	1.31	0.68	F	5.7
200 g	3DNS -	14.3	14.3	4.7	F	40
200 g	3DNS *	10.7	10.7	4.7	F	40
200 g	4N8L -	16.3	16.3	4.7	F	40
200 g	4N8L *	9.5	9.5	4.7	F	40
100 g	3DNS -	3.7	3.7	2.3	F	20
100 g	4N8L -	2.5	2.5	2.3	F	20
50 g	3DNS -	5.7	5.7	1.2	F	10

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Philip Lockwood
Manager for Metrology Laboratory
Agency Representative

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CALIBRATION CERTIFICATE - AMENDED

For

6 - 1000 lb, 50 - 50 lb
Test Weights
6 - Weight Kits

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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)
50 g	4N8L -	3.1	3.1	1.2	F	10
.2 lb	BS97 -	-3.1	-3.1	2.1	F	18
.2 lb	BS97 *	0.5	0.5	2.1	F	18
.2 lb	BS6179 -	7.2	7.2	2.1	F	18
.2 lb	BS6179 *	7.7	7.7	2.1	F	18
.2 lb	3NDQ -	5.0	5.0	2.1	F	18
.2 lb	3NDQ *	4.2	4.2	2.1	F	18
.2 lb	4N8K -	7.5	7.5	2.1	F	18
.2 lb	4N8K *	5.7	5.7	2.1	F	18
.1 lb	BS97 -	-5.4	-5.4	1.1	F	9.1
.1 lb	BS6179 -	1.8	1.8	1.1	F	9.1
.1 lb	3NDQ -	3.5	3.5	1.1	F	9.1
.1 lb	4N8K -	4.0	4.0	1.1	F	9.1
.05 lb	BS97 -	-1.27	-1.27	0.53	F	4.5
.05 lb	BS6179 -	2.11	2.11	0.53	F	4.5
.05 lb	3NDQ -	1.23	1.23	0.53	F	4.5
.05 lb	4N8K -	1.63	1.63	0.53	F	4.5
1/2 oz	3NDQ -	0.64	0.64	0.25	F	2.1
1/2 oz	BS97 -	-0.18	-0.18	0.25	F	2.1
1/4 oz	3NDQ -	0.55	0.55	0.20	F	1.7
1/4 oz	BS97 -	0.56	0.56	0.20	F	1.7
1/8 oz	3NDQ -	0.09	0.09	0.15	F	1.3
1/8 oz	BS97 -	-0.59	-0.59	0.15	F	1.3
1/16 oz	3NDQ -	0.56	0.56	0.13	F	1.1
1/16 oz	BS97 -	0.57	0.57	0.13	F	1.1
1/32 oz	3NDQ -	0.37	0.37	0.10	F	0.87
1/32 oz	3NDQ *	0.45	0.45	0.10	F	0.87
1/32 oz	BS97 -	0.37	0.37	0.10	F	0.87
1/32 oz	BS97 *	-0.57	-0.57	0.10	F	0.87
20 g	3DNS -	1.26	1.26	0.47	F	4.0
20 g	3DNS *	1.07	1.07	0.47	F	4.0

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

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Nominal Value	Serial / ID #	As Found	As Left	Expanded	Tolerance	Tolerance
		Mass Correction (mg)	Mass Correction (mg)	Uncertainty (mg)	Class	(mg)
20 g	4N8L -	0.83	0.83	0.47	F	4.0
20 g	4N8L *	0.90	0.90	0.47	F	4.0
10 g	3DNS -	0.78	0.78	0.23	F	2.0
10 g	4N8L -	0.67	0.67	0.23	F	2.0
5 g	3DNS -	-0.58	-0.58	0.18	F	1.5
5 g	4N8L -	0.19	0.19	0.18	F	1.5
2 g	3DNS -	0.64	0.64	0.13	F	1.1
2 g	3DNS 8	0.48	0.48	0.13	F	1.1
2 g	4N8L -	0.31	0.31	0.13	F	1.1
2 g	4N8L *	0.39	0.39	0.13	F	1.1
1 g	3DNS -	0.31	0.31	0.11	F	0.90
1 g	4N8L -	0.13	0.13	0.11	F	0.90
.02 lb	BS6179 -	0.33	0.33	0.21	F	1.8
.02 lb	BS6179 *	0.24	0.24	0.21	F	1.8
.02 lb	3NDQ -	0.17	0.17	0.21	F	1.8
.02 lb	3NDQ *	0.20	0.20	0.21	F	1.8
.02 lb	4N8K -	0.37	0.37	0.21	F	1.8
.02 lb	4N8K *	0.14	0.14	0.21	F	1.8
.02 lb	BS97 -	-0.30	-0.30	0.21	F	1.8
.02 lb	BS97 *	0.47	0.47	0.21	F	1.8
.01 lb	BS6179 -	0.42	0.42	0.18	F	1.5
.01 lb	3NDQ -	0.52	0.52	0.18	F	1.5
.01 lb	4N8K -	0.60	0.60	0.18	F	1.5
.01 lb	BS97 -	-0.12	-0.12	0.18	F	1.5
.005 lb	BS6179 -	0.27	0.27	0.15	F	1.2
.005 lb	3NDQ -	0.64	0.64	0.15	F	1.2
.005 lb	4N8K -	0.55	0.55	0.15	F	1.2
.002 lb	BS6179 -	0.16	0.16	0.10	F	0.87
.002 lb	BS6179 *	0.12	0.12	0.10	F	0.87
.002 lb	3NDQ -	0.43	0.43	0.10	F	0.87
.002 lb	3NDQ *	0.28	0.28	0.10	F	0.87

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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)
.002 lb	4N8K -	0.27	0.27	0.10	F	0.87
.002 lb	4N8K 8	0.33	0.33	0.10	F	0.87
.001 lb	BS6179 -	0.330	0.330	0.083	F	0.70
.001 lb	3NDQ -	0.338	0.338	0.083	F	0.70
.001 lb	4N8K -	0.248	0.248	0.083	F	0.70

❖ 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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