



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-000006342

CALIBRATION CERTIFICATE

FOR
16-1000 lb, 20-50 lb
2-Test 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. Only compliance with tolerance specifications were evaluated.

Test Date: 12/14/2017
Calibration Due: 12/31/2018

Received Date: 12/13/2017
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: CCE36-SN:28601985, MSA225S-SN:28512376, CCE2004-SN:28601871, CCE5003-SN:21411465
CCE60K2-SN:26803155, CCS600K-SN:21405144

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

Daniel Gibbons
Metrologist
Legal Signatory



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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)
1000 lb	97622	-27800	-27800	7100	F	45000
1000 lb	97629	-35800	2200	7100	F	45000
1000 lb	97921	-21800	-21800	7100	F	45000
1000 lb	97927	-26800	-26800	7100	F	45000
1000 lb	BS105	-21800	-21800	7100	F	45000
1000 lb	BS108	-29800	-29800	7100	F	45000
1000 lb	BS100	-25800	-25800	7100	F	45000
1000 lb	BS107	-31800	-31800	7100	F	45000
1000 lb	97925	-32800	-32800	7100	F	45000
1000 lb	97928	-2800	-2800	7100	F	45000
1000 lb	97926	-14800	-14800	7100	F	45000
1000 lb	97802	-2800	-2800	7100	F	45000
1000 lb	BS104	-38800	3200	7100	F	45000
1000 lb	BS106	-31800	-31800	7100	F	45000
1000 lb	BS103	-15800	-15800	7100	F	45000
1000 lb	BS102	-35800	1200	7100	F	45000
50 lb	BS141	-2190	-10	280	F	2300
50 lb	BS70	-2050	0	280	F	2300
50 lb	BS32	-3080	20	280	F	2300
50 lb	BS19	-2110	0	280	F	2300
50 lb	BS63	-740	-740	280	F	2300
50 lb	BS618	-2550	0	280	F	2300
50 lb	BS123	-3100	-10	280	F	2300
50 lb	BS20	-2070	-10	280	F	2300
50 lb	BS16	-1790	-10	280	F	2300
50 lb	BS140	-4370	-20	280	F	2300
50 lb	BS40	-4780	-10	280	F	2300
50 lb	BS51	-2750	0	280	F	2300
50 lb	BS142	-2400	-10	280	F	2300
50 lb	BS39	-3870	0	280	F	2300
50 lb	BS34	-6970	-10	280	F	2300

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

■ denotes a weight that was rejected.

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Relative Humidity Range: 40 % to 60 %

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Nominal Value	Serial / ID #	As Found		As Left		Expanded Uncertainty (mg)	Tolerance Class	Tolerance (mg)
		Mass Correction (mg)		Mass Correction (mg)				
50 lb	BS115	-	-2040	0	❖	280	F	2300
50 lb	BS122	-	-3250	0	❖	280	F	2300
50 lb	BS37	-	-3290	10	❖	280	F	2300
50 lb	BS117	-	-2870	10	❖	280	F	2300
50 lb	BS1A	-	-630	-630		280	F	2300
5 lb	BS90	-	-42	-42		28	F	230
5 lb	BS90	*	40	40		28	F	230
5 lb	BS90	**	15	15		28	F	230
5 lb	BS90	***	-43	-43		28	F	230
5 lb	BS90	****	-59	-59		28	F	230
5 kg	BS126	-	15	15		59	F	500
4 kg	BS126	-	-28	-28		47	F	400
3 kg	BS126	-	78	78		36	F	300
1 lb	BS90	-	25.3	25.3		8.4	F	70
1 lb	BS90	*	8.8	8.8		8.4	F	70
1 lb	BS90	**	21.2	21.2		8.4	F	70
1 lb	BS90	***	1.0	1.0		8.4	F	70
1 lb	BS90	****	0.8	0.8		8.4	F	70
8 oz	BS90	-	11.2	11.2		5.4	F	45
2 kg	BS126	-	31	31		23	F	200
500 g	BS126	-	13.7	13.7		8.4	F	70
300 g	BS126	-	7.4	7.4		8.4	F	60
.2 lb	BS90	-	5.2	5.2		2.1	F	18
.2 lb	BS90	*	6.0	6.0		2.1	F	18
.1 lb	BS90	-	3.3	3.3		1.1	F	9.1
.05 lb	BS90	-	2.08	2.08		0.53	F	4.5
200 g	BS126	-	1.0	1.0		4.7	F	40
50 g	BS126	-	3.1	3.1		1.2	F	10
.02 lb	BS90	-	0.77	0.77		0.21	F	1.8
.02 lb	BS90	*	0.65	0.65		0.21	F	1.8
.01 lb	BS90	-	0.45	0.45		0.18	F	1.5

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Nominal Value	Serial / ID #	As Found		As Left		Expanded Uncertainty (mg)	Tolerance Class	Tolerance (mg)
		Mass Correction (mg)		Mass Correction (mg)				
.005 lb	BS90 -	0.55		0.55		0.15	F	1.2
.002 lb	BS90 -	0.22		0.22		0.10	F	0.87
.002 lb	BS90 *	0.29		0.29		0.10	F	0.87
.001 lb	BS90 -	0.241		0.241		0.083	F	0.70
20 g	BS126 -	0.72		0.72		0.47	F	4.0
20 g	BS126 *	0.55		0.55		0.47	F	4.0
10 g	BS126 -	0.34		0.34		0.23	F	2.0
5 g	BS126 -	0.00		0.00		0.18	F	1.5
2 g	BS126 -	0.35		0.35		0.13	F	1.1
2 g	BS126 *	0.37		0.37		0.13	F	1.1
1 g	BS126 -	0.08		0.08		0.11	F	0.90

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