



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-000006506

CALIBRATION CERTIFICATE

FOR

17 - 1000 lb, 15 - 50 lb, 2 - 25 lb

Test Weights

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: 04/20/2018
Calibration Due: 04/30/2019
Received Date: 04/19/2018
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
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 0.000002204622621848776
milligram (mg) to ounce (oz): oz = mg x 0.00003527396194958041

Philip Lockwood

Philip Lockwood
Manager for Metrology Laboratory
Agency Representative

Preston Adachi

Preston Adachi
Metrologist
Legal Signatory



TEXAS DEPARTMENT OF AGRICULTURE

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Test Completed
04/20/2018

Date Due
04/30/2019

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 weights and their calibration results.

❖ 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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Handwritten signature of Philip Lockwood

Philip Lockwood
Manager for Metrology Laboratory
Agency Representative

Handwritten signature of Preston Adachi

Preston Adachi
Metrologist
Legal Signatory



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Relative Humidity Range: 40 % to 60 %
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Nominal Value	Serial / ID #	As Found Mass Correction (mg)	As Left Mass Correction (mg)	Expanded Uncertainty (mg)	Tolerance Class	Tolerance (mg)
50 lb	5PP 9	-20	-20	270	F	2300
25 lb	BS 65	130	130	140	F	1100
25 lb	BS 67	60	60	140	F	1100

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

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