



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-000006372

CALIBRATION CERTIFICATE

FOR
3-50 lb Test Weights

SUBMITTED BY
Bastrop Scale Company
P.O. Box 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: 01/12/2018
Calibration Due: 01/31/2019
Received Date: 01/11/2017
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: 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 signature

Philip Lockwood
Manager for Metrology Laboratory
Agency Representative

Daniel Gibbons signature

Daniel Gibbons
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

3-50 lb Test Weights

Test Completed
01/12/2018

Test Number
G-000006372

Date Due
01/31/2019

Submitted by
Bastrop Scale Company
P.O. Box 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 Uncertainty	Tolerance Class	Tolerance (mg)
		Mass Correction (mg)	Mass Correction (mg)			
50 lb	BS 27	-6860	110 ❖	280	F	2300
50 lb	BS 77	-110	-110	280	F	2300
50 lb	BS 72	9040	60 ❖	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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