



Test Number
G-000006788

CALIBRATION CERTIFICATE

FOR
2 - 1000 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.

<p>Test Date: 11/16/2018 Calibration Due: 11/30/2019 Issue Date: 11/19/2018</p> <p>Temperature Range: 18 °C to 27 °C Relative Humidity Range: 40 % to 60 % Procedure: NISTIR 6969, SOP No. 8, Modified Substitution Balances: XPE604KMC-SN: B740759674</p> <p>Mass Standards: Giddings Metrology Laboratory Mass Echelon III Standards</p>	<p>Received Date: 11/15/2018 Condition Received: Acceptable</p>
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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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<p>Note:</p> <p>Conversions:</p>	<p>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.</p> <p>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</p>
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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

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Test Completed
11/16/2018

Date Due
11/30/2019

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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	1012 -	-369500	-1100 ❖	7100	F	45000
1000 lb	BS6181 -	-174500	-200 ❖	7100	F	45000

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

■ denotes a weight that was rejected.

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