RICE LAKE Certificate of Weight Calibration

Traceable Certificate Number: 2823647
Contractor: BASTROP SCALE COMPANY
PO BOX 2100
BASTROP, TX 78602-9100

Purchase Order Number: 181003KB02
Client: BASTROP SCALE COMPANY
192 HARMON RD
PO DRAWER 2100
BASTROP, TX 78602

Date Received: 31 Oct 2018
Date Calibrated: 02 Nov 2018 to 06 Nov 2018
Recall Date: 02 Nov 2019
Temperature Range: 21.52 °C to 22.38 °C
Pressure Range: 720.70 mmHg to 728.86 mmHg
Relative Humidity Range: 46 % to 50 %
Air Density Range: 1.1306 mg/cm^3 to 1.1403 mg/cm^3
NIST Certificate Number: 684/286541-15
Although there are two NIST numbers, one or both may apply
Calibrated By: 20
Procedure: Inter-comparison Method (WI05-0095)
Condition of Weights: Acceptable for Calibration
Description of Weights: 200 g to 5 kg Satin Finish Weights, ASTM Class 1

Traceable to the SI through the National Institute of Standards and Technology — TMAP — RICE LAKE WEIGHING SYSTEMS

✳ Although this test weight has been tested for the tolerance of the class for which it was submitted, it does not meet the finish requirements for that class

Nominal Value	ID or S/N	As Found Conv. Mass	As Found Conv. Mass Corr (mg)	As Found MPE Pass	As Left Conv. Mass	As Left Conv. Mass Corr (mg)	As Left MPE Pass	Unc. (mg)	k	MPE* (mg)	Balance Used	Standard Set Used	Assumed Density (g/cm^3)
200 g	M841 ✳	200.000214	0.214	Y	**200.000214**	**0.214**	Y	0.042	2	0.50	1810Q	K594Q	7.84
300 g	M840 ✳	299.999990	-0.010	Y	**299.999990**	**-0.010**	Y	0.049	2	0.75	1810Q	K594Q	7.84
400 g	M839 ✳	399.999516	-0.484	Y	**399.999516**	**-0.484**	Y	0.076	2	0.98	1810Q	K594Q	7.84
500 g	M838 ✳	499.999939	-0.061	Y	**499.999939**	**-0.061**	Y	0.067	2	1.2	1810Q	K594Q	7.84
1 kg	M837 ✳	0.99999995	-0.05	Y	**0.99999995**	**-0.05**	Y	0.12	2	2.5	1810Q	K594Q	7.84
2 kg	M836 ✳	1.99999496	-5.04	N	**2.00000027**	**0.27**	Y	0.53	2	5.0	124Q	K594Q	7.84
3 kg	M835 ✳	2.99999381	-6.19	Y	**2.99999381**	**-6.19**	Y	0.60	2	7.5	124Q	K594Q	7.84
4 kg	M834 ✳	3.99999876	-1.24	Y	**3.99999876**	**-1.24**	Y	0.69	2	9.8	124Q	K594Q	7.84
5 kg	M833 ✳	4.99998784	-12.16	N	**5.00000511**	**5.11**	Y	0.84	2	12	124Q	K594Q	7.84

Check with your local state agency for certification of compliance on Legal for Trade items. *The weight accuracy class is referenced in the Description of Weights. Unless otherwise noted, the weights calibrated meet the requirements of the accuracy class. The Uncertainty of Measurement is included in the determination of Maximum Permissible Error (MPE) Pass/Fail Criteria. The specifications for Maximum Permissible Error (MPE) can be found in NIST Handbook 105-1 (1990), ASTM E617-13 or OIML R111-1 (2004), manufacturer specifications or customer specifications.

Prepared By:
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Definitions: http://certs.ricelake.com/certs/DefinitionsV2.docx

Dated 06 Nov 2018

Dan Demers, Metrologist

The Uncertainty assigned to the Conventional Mass values are the result of the root-sum-square of the type A and type B components, calculated in accordance with NIST SOP 29 and ISO GUM, with a coverage factor (k), to express the expanded uncertainty with an approximate 95.45 % confidence level.

PN 38914 11/17