

Traceable Certificate Number: 3643983 **Amended**
Contractor: K-SCALE LLC
 WEST RIVER SCALE LLC
 1701 W MADISON ST STE 100
 SIOUX FALLS, SD 57104-5723
Purchase Order Number: 18169
Client: K-SCALE LLC
 WEST RIVER SCALE LLC
 1701 W MADISON ST STE 100
 SIOUX FALLS, SD 57104-5723
Date Received: 30 Nov 2023
Date Calibrated: 05 Dec 2023
Recalibration Date: 05 Dec 2025
NIST Certificate Number: 684/O-0000046697



If there are two NIST numbers, one or both may apply

Calibrated By: 39
Procedure: WI05-0095 Rev. D
Condition of Weights: Acceptable for Calibration
Description of Weights: 100 g S/N 06-J17124-22 Polished Weight, ASTM Class 3 and 200 g S/N 07-463352 Polished Weight, ASTM Class 2
Comments: 100 g S/N 06-J17124-22 updated to Construction Type to I and changed to ASTM Class 3 tolerance, 14 Dec 2023. Updated Description of weights to reflect ASTM Class 3 for the 100 g weight and Construction Type to I in the initial comments from December 14th, 19 Dec 2023.

Key Notes

- Finish Indicates the weight does not meet the finish requirements
- Material Indicates the weight does not meet the material requirements
- New Wt Indicates new weight
- Missing Wt Indicates replaced missing weight with new weight
- Damaged Wt Indicates replaced damaged weight
- Replaced OOT Indicates replaced out of tolerance weight
- OOT Indicates correction plus or minus Uncertainty greater than or equal to MPE
- Magnetic Wt Indicates replaced magnetic weight
- Design Indicates the weight does not meet the design or shape requirements
- Repainted Indicates the weight was repainted after As Found obtained
- Other See comments above

Cleaning Levels

- A Dusted with brush or cloth
- B Spot cleaned with ethyl alcohol
- C Full surface cleaned with ethyl alcohol
- D Spot cleaned with non-alcohol solvent followed by ethyl alcohol
- E Full surface cleaned with non-alcohol solvent followed by ethyl alcohol
- F No cleaning performed

Material Abbreviations

AL	Aluminum	TA	Tantalum
SS	Stainless Steel	BR	Brass
CI	Cast Iron	PL	Platinum
IR	Iron	NS	Nickel Silver
MS	Mild Steel	OR	Other/Unknown

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. Results relate only to weights calibrated. The Surface Finishes of weights are evaluated visually. Weights are screened for magnetism using work instruction WI05-0035 when they are new, when requested by the customer or when weights are suspected of not meeting specifications. Density if measured is measured using OIML R111-1 (2004) method A2. Conventional Mass is reported based on a reference density of 8.0 g/cm³. 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 (2019), NIST Handbook 105-1 (1990), ASTM E617-18 or OIML R111-1 (2004), manufacturer specifications or customer specifications.

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 the Guide to the expression of uncertainty in measurement, with coverage factor ($k=2$), to express the expanded uncertainty with an approximate 95.45% confidence level. This report is not to be used to claim product certification, approval, or endorsement by NVLAP, NIST, A2LA, or any government agency. **This document and all data within, shall not be reproduced, except in full, without the written approval of Rice Lake Weighing Systems.**

Dan Demers, Metrologist

19 Dec 2023
 Issued Date:



Prepared By:
Rice Lake Weighing Systems® • PN 64784 • 12/21
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 TEL: 715-234-9171 • FAX: 715-234-6967
 Definitions: <http://certs.ricelake.com/certs/DefinitionsV2.docx>
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Certificate of Weight Calibration

ISO/IEC 17025 & ANSI/NCSL-Z540-1-1994 ACCREDITED

Traceable Certificate Number: 3643983Amended
 Client: K-SCALE LLC
 Date Calibrated: 05 Dec 2023

Temperature Range: 21.03 °C to 21.19 °C
 Pressure Range: 733.14 mmHg to 734.18 mmHg
 Relative Humidity Range: 48 % to 51 %

As Left Data (As Found Data is undifferentiated from As Left Data unless listed in As Found Data table)

Nominal Value	Unique ID	True Mass (Same UOM as Nom.)	True Mass Corr. (mg)	Conv. Mass (Same UOM as Nom.)	Conv. Mass Corr. (mg)	(k=2) Unc. (± mg)	MPE (± mg)	MPE Pass (Y=Pass N=Fail)	Assumed Density (g/cm ³)	Assumed Material	Const. Type	Balance Used	Reference Standard Set Used	Air Density (mg/cm ³)	Clean Level
100 g	06-J17124-22	99.999699	-0.301	99.999412	-0.588	0.052	1.0	Y	7.85	SS	I	1631Q	K594Q	1.1535	A
200 g	07-463352	200.000483	0.483	199.999910	-0.090	0.056	1.0	Y	7.85	SS	II	1810Q	K594Q	1.1522	A