

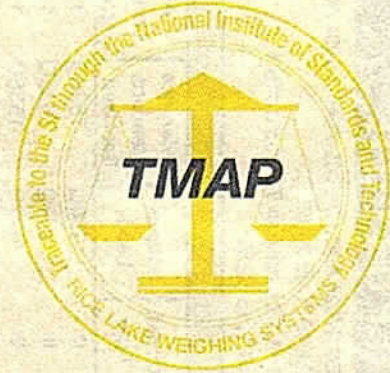
Traceable Certificate Number: 3107064
Contractor: ADVANCED SCALE INC
 13 DELTA DR UNIT 6
 LONDONDERRY, NH 03053-2372

Purchase Order Number: 9373
Client: ADVANCED SCALE INC
 13 DELTA DR UNIT 6
 LONDONDERRY, NH 03053-2372

Date Received: 17 Sep 2020
Date Calibrated: 22 Sep 2020 to 23 Sep 2020
Recalibration Date: 22 Sep 2021
NIST Certificate Number: 684/292805-19

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

Calibrated By: 20
Procedure: WI05-0095 Rev. D
Condition of Weights: Acceptable for Calibration
Description of Weights: 100 g to 1 kg Polished Weight Kit, ASTM Class 1, S/N 07735
Comments:



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 shall not be reproduced, except in full, without the written approval of Rice Lake Weighing Systems.

Dan Demers
 Dan Demers, Metrologist

23 Sep 2020
 Date:



Prepared By:
 Rice Lake Weighing Systems® • PN 64784 • 06/20
 230 West Coleman Street • Rice Lake, WI 54868 • USA
 TEL: 715-234-9171 • FAX: 715-234-6967
 Definitions: <http://certs.ricelake.com/certs/DefinitionsV2.docx>
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RICE LAKE Certificate of Weight Calibration

ISO/IEC 17025 & ANSI/NCSL-Z540-1-1994 ACCREDITED
 Temperature Range: 21.49 °C to 21.55 °C
 Pressure Range: 731.13 mmHg to 734.53 mmHg
 Relative Humidity Range: 49 % to 52 %

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As Left Data (As Found only shown when different than As Left)															
Nominal Value	Unique ID	True Mass	True Mass Corr. (mg)	Conv. Mass	Conv. Mass Corr. (mg)	(k=2) Unc. (± mg)	MPE (± mg)	MPE Pass	Assumed Density (g/cm ³)	Assumed Material	Const. Type	Balance Used	Reference Standard Set Used	Air Density (mg/cm ³)	Clean Level
100 g		100.000106	0.106	100.000011	0.011	0.027	0.25	Y	7.95	SS	II	1958Q	T535Q	1.1521	A
200 g		200.000495	0.495	200.000307	0.307	0.046	0.50	Y	7.95	SS	II	699Q	T535Q	1.1471	A
300 g		300.000850	0.850	300.000567	0.567	0.070	0.75	Y	7.95	SS	II	699Q	T535Q	1.1491	A
500 g		500.001060	1.060	500.000588	0.588	0.091	1.2	Y	7.95	SS	II	699Q	T535Q	1.1487	A
1 kg		1.00000231	2.31	1.00000137	1.37	0.11	2.5	Y	7.95	SS	II	699Q	T535Q	1.1489	A