#### RICELAKE

## Certificate of Weight Calibration

ISO/IEC 17025:2017 & ANSI/NCSL-Z540-1-1994 ACCREDITED

**Traceable Certificate Number: 3776582** 

Contractor: ADVANCED SCALE INC 13 DELTA DR UNIT 6

LONDONDERRY, NH 03053-2372

Purchase Order Number: 10481

Client: ADVANCED SCALE INC

13 DELTA DR UNIT 6

LONDONDERRY, NH 03053-2372

Date Received: 02 Oct 2024

Date Calibrated: 03 Oct 2024 to 04 Oct 2024

**Recalibration Date:** 31 Oct 2025 **NIST Certificate Number:** 684/O-000046697

If there are two NIST numbers, one or both may apply **Calibrated By:** 17

Procedure: WI05-0095 Rev. E

Condition of Weights: Acceptable for Calibration

Description of Weights: 100 g to 1 kg Polished Weight Set, ASTM Class 1, S/N 07735

Comments:

Finish

Material

New Wt

Missing Wt

Damaged Wt



# Key Notes ★ Indicates the weight does not meet the finish requirements ♠ Indicates the weight does not meet the material requirements ♠ Indicates new weight ♠ Indicates replaced missing weight with new weight ★ Indicates replaced damaged weight ★ Indicates replaced out of tolerance weight

Replaced OOT 

★ Indicates replaced out of tolerance weight

OOT 

Indicates replaced out of tolerance weight

Indicates correction plus or minus Uncertainty greater than or equal to MPE

Magnetic Wt ★★Indicates replaced magnetic weight

Repainted Indicates the weight was repainted after As Found obtained

CI	leaning	Level	ļ

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 TA Tantalum Aluminum SS BR Stainless Steel Brass CI PL Cast Iron 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 using OIML R111-1 (2004) method A2. Conventional Mass is reported based on a reference density of 8.0 g/cm<sup>3</sup>. 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 E617-23 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**.





Prepared By:

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Definitions: http://certs.ricelake.com/certs/DefinitionsV2.docx Page 1 of 2 04 Oct 2024

Issued Date:



### RICE LAKE

# Certificate of Weight Calibration

ISO/IEC 17025:2017 & ANSI/NCSL-Z540-1-1994 ACCREDITED

**Traceable Certificate Number:** 3776582

**Temperature Range:** 21.47 °C to 21.66 °C

Client: ADVANCED SCALE INC
Date Calibrated: 03 Oct 2024 to 04 Oct 2024

Pressure Range: 734.30 mmHg to 739.55 mmHg

**Relative Humidity Range:** 50 % to 55 %

	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)	( <i>k</i> =2) Unc. (± mg)	MPE (± mg)	MPE Pass (Y=Pass N=Fail)	Assumed Density (g/cm <sup>3</sup> )	Assumed Material	Const. Type	Balance Used	Reference Standard Set Used	Density	Clean Level
100 g	07735	100.000011	0.011	99.999917	-0.083	0.026	0.25	Y	7.95	SS	II	2060Q	U520Q	1.1596	Α
200 g	07735	200.000451	0.451	200.000262	0.262	0.046	0.50	Υ	7.95	SS	II	699Q	L595Q	1.1599	Α
300 g	07735.	300.000653	0.653	300.000370	0.370	0.061	0.75	Υ	7.95	SS	II	699Q	L595Q	1.1528	. A
500 g	07735.	500.001159	1.159	500.000687	0.687	0.070	1.2	Υ	7.95	SS	II	699Q	L595Q	1.1515	5 A
1 kg	07735	1.00000221	2.21	1.00000127	1.27	0.13	2.5	Υ	7.95	SS	II	699Q	L595Q	1.1511	Α