RICELAKE

Certificate of Weight Cali

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

Traceable Certificate Number: 3428022

Contractor: ADVANCED SCALE INC. 13 DELTA DR UNIT 6

LONDONDERRY, NH 03053-2372

Purchase Order Number: 9968

Client: ADVANCED SCALE INC

13 DELTA DR UNIT 6

LONDONDERRY, NH 03053-2372

Date Received: 17 Aug 2022 **Date Calibrated:** 22 Aug 2022 **Recalibration Date:** 31 Aug 2023

NIST Certificate Number: 684/291344-18 & 684/292805-19

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

Procedure: WI05-0095 Rev. D **Condition of Weights:** Acceptable for Calibration

See comments above

Description of Weights: 200 g Polished Weight, ASTM Class 1, S/N 69M8

Comments:

Other



Cleaning Levels

A Dusted with brush or cloth

Spot cleaned with ethyl alcohol

С Full surface cleaned with ethyl alcohol

Spot cleaned with non-alcohol solvent followed by ethyl alcohol

Ε Full surface cleaned with non-alcohol solvent followed by ethyl alcohol

No cleaning performed

Material Abbreviations

Aluminum	TA	Tantalum
Stainless Steel	BR	Brass
Cast Iron	PL	Platinum
Iron	NS	Nickel Silver
Mild Steel	OR	Other/Unknown
	Stainless Steel Cast Iron Iron	Stainless Steel BR Cast Iron PL Iron NS

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

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.





Prepared By:

Rice Lake Weighing Systems®●PN 64784●12/21 230 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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22 Aug 2022 Issued Date:



RICE LAKE

Certificate of Weight Calibration

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

Traceable Certificate Number: 3428022

Temperature Range:

21.53 °C 733.70 mmHg

Client: ADVANCED SCALE INC

Pressure Range: 733.7

Date Calibrated: 22 Aug 2022 Relative Humidity Range: 54 %

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 ³)	Assumed Material	Const. Type	Balance Used	Reference Standard Set Used	Density	Clean Level
200 g	69M8.	200.000321	0.321	200.000133	0.133	0.047	0.50	Υ	7.95	SS	II	699Q	L595Q	1.1506	Α

RICELAKE

Certificate of Weight Calibration

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

Traceable Certificate Number: 3428022A

Contractor: ADVANCED SCALE INC 13 DELTA DR UNIT 6

LONDONDERRY, NH 03053-2372

Purchase Order Number: 9968

Client: ADVANCED SCALE INC

13 DELTA DR UNIT 6

LONDONDERRY, NH 03053-2372

Date Received:17 Aug 2022Date Calibrated:22 Aug 2022Recalibration Date:31 Aug 2023

NIST Certificate Number: 684/291344-18 & 684/292805-19

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

Procedure: WI05-0095 Rev. D

Condition of Weights: Acceptable for Calibration

See comments above

Description of Weights: 200 g Polished Weight, ASTM Class 1, S/N 69M9

Comments:

Other



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

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

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/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



Prepared By:

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22 Aug 2022



RICE LAKE

Certificate of Weight Calibration

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

Traceable Certificate Number: 3428022A

Date Calibrated:

Temperature Range:

21.55 °C

ADVANCED SCALE INC Client:

22 Aug 2022

Pressure Range: 733.74 mmHg

Relative Humidity Range: 50 %

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 ³)	Assumed Material	Const. Type	Balance Used	Reference Standard Set Used	Density	Clean Level
200 g	69M9	200.000364	0.364	200.000175	0.175	0.046	0.50	Y	7.95	SS	II	699Q	L595Q	1.1511	Α