RICELAKE

Certificate of Weight Calib

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

Traceable Certificate Number: 3525362

Contractor: ADVANCED SCALE INC. 13 DELTA DR UNIT 6

LONDONDERRY, NH 03053-2372

Purchase Order Number: 10102

Client: ADVANCED SCALE INC

13 DELTA DR UNIT 6

LONDONDERRY, NH 03053-2372

Date Received: 07 Mar 2023 **Date Calibrated:** 23 May 2023 **Recalibration Date:** 23 May 2024 **NIST Certificate Number:** 684/292805-19 If there are two NIST numbers, one or both may apply

Calibrated By: 28

Procedure: WI05-0023 Rev. K

See comments above

Condition of Weights:

Description of Weights: 3 - 20 kg Cast Iron Grip Handle Weights, ASTM Class 6, S/N 430 - 434

Indicates the weight was repainted after As Found obtained

Comments:

Finish

Material

New Wt

OOT

Design

Other

Missing Wt

Damaged Wt

Magnetic Wt

Repainted

Replaced OOT



Key Notes
* Indicates the weight does not meet the finish requirements
ndicates 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
Indicates correction plus or minus Uncertainty greater than or equal to MPE
★★Indicates replaced magnetic weight
Indicates the weight does not meet the design or shape requirements

С 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 No cleaning performed **Material Abbreviations** AL TA Tantalum Aluminum SS BR Stainless Steel Brass CI PLCast Iron Platinum **IR** Iron NS Nickel Silver MS Mild Steel OR Other/Unknown

A Dusted with brush or cloth Spot cleaned with ethyl alcohol

Cleaning Levels

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.

Mike Arrigoni, Lab Supervisor



Prepared By:

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

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23 May 2023





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Traceable Certificate Number: 3525362

Temperature Range: Pressure Range:

Client: ADVANCED SCALE INC

20.40 °C 733.11 mmHg

Date Calibrated: 23 May 2023

Relative Humidity Range: 52 %

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
20 kg 430		20.001560	1560	20.001226	1226	240	2000	Υ	7.20	CI	II	1630Q	D563Q	1.1548	Α
20 kg 433		20.001550	1550	20.001216	1216	240	2000	Υ	7.20	CI	II	1630Q	D563Q	1.1548	Α
20 kg 434		20.001490	1490	20.001156	1156	240	2000	Υ	7.20	CI	II	1630Q	D563Q	1.1548	Α