

Traceable Certificate Number: 2954316
Contractor: ADVANCED SCALE INC
 13 DELTA DR UNIT 6
 LONDONDERRY, NH 03053

Purchase Order Number: 9091
Client: ADVANCED SCALE INC
 13 DELTA DR UNIT 6
 LONDONDERRY, NH 03053

Date Received: 19 Sep 2019
Date Calibrated: 20 Sep 2019
Recall Date: 20 Sep 2020
Temperature Range: 20.95 °C to 21.03 °C
Pressure Range: 733.07 mmHg to 733.13 mmHg
Relative Humidity Range: 47 % to 51 %
Air Density Range: 1.1523 mg/cm³ to 1.1529 mg/cm³
NIST Certificate Number: 684/292805-19

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

Calibrated By: 17
Procedure: Inter-comparison Method (WI05-0095 Rev. C)
Condition of Weights: Acceptable for Calibration
Description of Weights: 100 g to 1 kg Polished Weights, ASTM Class 1, S/N 07735



Nominal Value	ID or S/N	As Found			As Left			Unc. (mg)	k	MPE* (mg)	Balance Used	Standard Assumed	
		Conv. Mass	Conv. Mass Corr (mg)	MPE Pass	Conv. Mass	Conv. Mass Corr (mg)	MPE Pass					Set Used	Density (g/cm ³)
100 g		99.999978	-0.022	Y	99.999978	-0.022	Y	0.039	2	0.25	1470Q	T535Q	7.95
200 g		200.000273	0.273	Y	200.000273	0.273	Y	0.045	2	0.50	699Q	T535Q	7.95
300 g		300.000517	0.517	Y	300.000517	0.517	Y	0.035	2	0.75	699Q	T535Q	7.95
500 g		500.000544	0.544	Y	500.000544	0.544	Y	0.050	2	1.2	699Q	T535Q	7.95
1 kg		1.00001334	1.334	Y	1.00001334	1.334	Y	0.090	2	2.5	699Q	T535Q	7.95

This report contains data not covered by the NVLAP Accreditation if the box is checked.

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 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.

Prepared By:
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 Definitions: <http://certs.ricelake.com/certs/DefinitionsV2.docx>

Dated 20 Sep 2019

Dan Demers
 Dan Demers, Metrologist



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 ISO GUM, with a coverage factor (k), 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 agency of the U.S. Government. This document shall not be reproduced, except in full, without the written approval of Rice Lake Weighing Systems' Metrology Laboratory.

