



Mass Calibration Certificate



Certificate #: 93379

This calibration is accredited under the laboratory's ISO/IEC 17025 accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation AC-1222.

Calibration Performed By
PREMIER SCALES & SYSTEMS
4901 NORTH SAINT JOSEPH AVE.
EVANSVILLE, IN 47720

Customer
KOENIG SCALE
4779 EAST MARGARET DRIVE
TERRE HAUTE, IN 47803

Weight and Test Information

Equipment I.D.:	29577	Serial Number:	29577
Description:	TEST WEIGHTS, STAINLESS STEEL MASTER KIT	Temp. / Humidity / Pressure:	20.60 °C / 50.3 % / 758.4 mmHg
Manufacturer:	TROEMNER	Performed By:	<i>Randolph Hundt</i> RHUNDT
Denomination:	KIT: (100 TO 1) G	Receive Date:	21-Jan-20
Class:	ASTM CLASS 1	Calibration Date:	22-Jan-20
Condition of Item(s) as Received:	GOOD	Calibration Due:	22-Jan-21

Comments

Calibration Results

Nominal / I.D.	Results	As Found	Tolerance \pm	Uncertainty \pm	Results	As Left	Assumed Density (g/cm ³)
100 g	P	-0.072 mg	0.250 mg	0.034 mg	P	-0.072 mg	7.95
50 g	P	-0.052 mg	0.120 mg	0.019 mg	P	-0.052 mg	7.95
20 g	P	-0.0098 mg	0.0740 mg	0.0095 mg	P	-0.0098 mg	7.95
20 g •	P	-0.0178 mg	0.0740 mg	0.0095 mg	P	-0.0178 mg	7.95
10 g	P	-0.0122 mg	0.0500 mg	0.0089 mg	P	-0.0122 mg	7.95
5 g	P	-0.0061 mg	0.0340 mg	0.0044 mg	P	-0.0061 mg	7.95
2 g	P	0.0017 mg	0.0340 mg	0.0032 mg	P	0.0017 mg	7.95
2 g •	P	0.0137 mg	0.0340 mg	0.0032 mg	P	0.0137 mg	7.95
1 g	P	0.0008 mg	0.0340 mg	0.0038 mg	P	0.0008 mg	7.95

Standard(s) Used

Kit/I.D. Number	Description	Traceability Number	Calibration Due
2XQL	METRIC WORKING STANDARD KIT	2407650J	3/29/2020
306781	THERMOMETER, DIGITAL	86114	6/26/2020
BP-0581	BAROMETER, DIGITAL	CI047-29645-510	2/16/2020
EWS-RH	HYGROMETER, DIGITAL	81978	3/5/2020

Test Point Descriptors:

P = Pass : Compliance - The measurement result is within the specification limit when the measurement uncertainty is taken into account.

***F = Fail** : Non-compliance - The measurement result is outside the specification limit when the measurement uncertainty is taken into account.

NP = Not Possible : It is not possible to state compliance even though the measurement result \pm the uncertainty value overlaps the specification limit.

All values listed were determined by comparing the artifacts to Premier Scales & Systems' reference standards which are traceable to the International System of Units (SI), by an accredited lab or a NIST recognized state laboratory, through the traceability number(s) listed. All "As Found" and "As Left" values are reported as the correction value of the conventional mass of the artifact. Documented results contained within this calibration certificate relate only to the artifacts calibrated on the date listed. The uncertainty is obtained by taking the root sum square of the Type A and Type B components and multiplying by a *k* factor of 2 to obtain a confidence level of approximately 95 %. The uncertainty values and measurement results are included in the pass / fail condition of the artifact(s). The uncertainty values do not include a component for magnetic properties, air buoyancy corrections or handling and use. Premier Scales & Systems shall not be held liable for any inaccuracies of the artifacts after time of test. This document may not be reproduced, except in full, without the written approval of Premier Scales & Systems.

ANSI/NCSL Z540-1-1994: Part 1 & ISO/IEC 17025 Compliant

Chris D. Crawford

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Procedure(s) Used

Procedure Number
NISTIR 6969 SOP 4

Description

DOUBLE SUBSTITUTION

Revision Level

2019

Revision Date

5/31/2019

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