



Mass Calibration Certificate



Certificate #: **122158**

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		
Manufacturer:	TROEMNER	Temp. / Humidity / Pressure:	20.09 ° C / 44.7 % / 748.4 mmHg
Denomination:	KIT: (100 TO 1) G	Performed By:	<i>Chris McCellhiney</i> CMCELLHINEY
Class:	ASTM CLASS 1	Receive Date:	09-Mar-22
Condition of Item(s) as Received:	IN TOLERANCE	Calibration Date:	29-Mar-22
Comments	Calibration Due: 29-Mar-23		

Cleaned and acclimated prior to calibration.

Calibration Results

Nominal / I.D.	Results	As Found	Tolerance ±	Uncertainty ±	Results	As Left	Assumed Density (g/cm³)
100 g	P	-0.012 mg	0.250 mg	0.034 mg	P	-0.012 mg	7.95
50 g	P	-0.022 mg	0.120 mg	0.019 mg	P	-0.022 mg	7.95
20 g	P	0.0200 mg	0.0740 mg	0.0095 mg	P	0.0200 mg	7.95
20 g •	P	0.0000 mg	0.0740 mg	0.0095 mg	P	0.0000 mg	7.95
10 g	P	-0.0100 mg	0.0500 mg	0.0089 mg	P	-0.0100 mg	7.95
5 g	P	0.0060 mg	0.0340 mg	0.0044 mg	P	0.0060 mg	7.95
2 g	P	0.0065 mg	0.0340 mg	0.0032 mg	P	0.0065 mg	7.95
2 g •	P	0.0040 mg	0.0340 mg	0.0032 mg	P	0.0040 mg	7.95
1 g	P	0.0047 mg	0.0340 mg	0.0038 mg	P	0.0047 mg	7.95

Standard(s) Used

Kit/I.D. Number	Description	Traceability Number	Calibration Due
2XQL	METRIC WORKING STANDARD KIT	3043900G	4/7/2024
306781	THERMOMETER, DIGITAL	111790	6/30/2022
BP-0581	BAROMETER, DIGITAL	CL053-31862-397	2/22/2024
EWS-RH	HYGROMETER, DIGITAL	108704	3/31/2022

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 ± 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 recognized National Institute of Standards and Technology (NIST) 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.

Chris 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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