



# Mass Calibration Certificate



Certificate #: 64451

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:	20.30 °C / 55.1 % / 754.9 mmHg
Denomination:	KIT: (100 TO 1) G	Performed By:	<i>[Signature]</i> ODARR
Class:	ASTM CLASS 1	Receive Date:	29-Sep-17
Condition of Item(s) as Received:	GOOD	Calibration Date:	05-Oct-17
		Calibration Due:	05-Oct-18

**Comments****Calibration Results**

Nominal / I.D.	P/*F/NP	As Found	Tolerance $\pm$	Uncertainty $\pm$	P/*F/NP	As Left	Assumed Density (g/cm <sup>3</sup> )
100 g	P	0.030 mg	0.250 mg	0.034 mg	P	0.030 mg	7.95
50 g	P	0.042 mg	0.120 mg	0.019 mg	P	0.042 mg	7.95
20 g	P	0.0004 mg	0.0740 mg	0.0095 mg	P	0.0004 mg	7.95
20 g •	P	0.0149 mg	0.0740 mg	0.0095 mg	P	0.0149 mg	7.95
10 g	P	-0.0046 mg	0.0500 mg	0.0089 mg	P	-0.0046 mg	7.95
5 g	P	0.0010 mg	0.0340 mg	0.0044 mg	P	0.0010 mg	7.95
2 g	P	0.0037 mg	0.0340 mg	0.0032 mg	P	0.0037 mg	7.95
2 g •	P	0.0066 mg	0.0340 mg	0.0032 mg	P	0.0066 mg	7.95
1 g	P	0.0051 mg	0.0340 mg	0.0038 mg	P	0.0051 mg	7.95

**Standard(s) Used**

<u>Kit/I.D. Number</u> 2XQL	<u>Description</u> METRIC WORKING STANDARD KIT	<u>Traceability Number</u> 2407650J	<u>Calibration Due</u> 3/29/2020
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**Procedure(s) Used**

<u>Procedure Number</u> NISTIR 6969 SOP 4	<u>Description</u> DOUBLE SUBSTITUTION	<u>Revision Level</u> 0	<u>Revision Date</u> 10/4/2006
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**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.

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