

## Mass Calibration Certificate



Certificate #: 76018

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

Weight and Test Information

Equipment I.D.: 24567

Description: TEST WEIGHTS, STAINLESS STEEL

Manufacturer: TROEMNER

Denomination: KIT: (50 TO 1) G

Class: ASTM CLASS 1

Condition of Item(s) as Received: GOOD

Comments

Customer

KOENIG SCALE 4779 EAST MARGARET DRIVE TERRE HAUTE, IN 47803

Serial Number: 24567

Temp. / Humidity / Pressure: 20.30 ° C / 49.1 % / 745.4 mmHg

Performed By: Kanchel Hundy RHUNDT
Receive Date: 14-Sep-18

Calibration Date: 11-Oct-18

Calibration Due: 11-Oct-19

**Calibration Results** 

Nominal / I.D.	Results	As Found	<u>Tolerance ±</u>	Uncertainty ±	<b>Results</b>	As Left	Assumed Density (g/cm³)
50 g	Р	<b>-0.068</b> mg	0.120 mg	0.020 mg	Р	<b>-0.068</b> mg	7.95
20 g	Р	<b>-0.0269</b> mg	0.0740 mg	0.0098 mg	Р	<b>-0.0269</b> mg	7.95
20 g •	Р	<b>-0.0354</b> mg	0.0740 mg	0.0098 mg	Р	<b>-0.0354</b> mg	7.95
10 g	Р	<b>-0.0047</b> mg	0.0500 mg	0.0090 mg	Р	<b>-0.0047</b> mg	7.95
5 g	Р	<b>-0.0016</b> mg	0.0340 mg	0.0044 mg	Р	<b>-0.0016</b> mg	7.95
2 g	Р	0.0157 mg	0.0340 mg	0.0033 mg	Р	<b>0.0157</b> mg	7.95
2 g •	P	<b>0.0122</b> mg	0.0340 mg	0.0033 mg	Р	<b>0.0122</b> mg	7.95
1 a	Р	-0.0062 mg	0.0340 mg	0.0038 mg	Р	-0.0062 mg	7.95

Standard(s) Used

Kit/I.D. Number 2XQL **Description**METRIC WORKING STANDARD KIT

Traceability Number 2407650J

Calibration Due 3/29/2020

Procedure(s) Used

Procedure Number NISTIR 6969 SOP 4 <u>Description</u>
DOUBLE SUBSTITUTION

Revision Level

Revision Date 10/4/2006

**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 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

Chis 1 hours 10/15/2018