



Calibration Certificate

Indiana Weights and Measures

Division of Weights and Measures
Metrology Laboratory
2525 N Shadeland Ave Ste D3
Indianapolis, IN 46219

Certificate Number: 22-280

Calibration Due Date: July 20, 2024

Date Received: July 18, 2022

Calibration Date: July 20, 2022

Issue Date: July 21, 2022

Issued To: Koenig Scale Company
4779 E Margaret Dr
Terre Haute, IN 47803

Calibration Authorized By: Kevin Koenig
Phone: 812-877-6121
Email: kevkoenig@koenigscale.com

Artifact Description(s)

Test Item(s): Avrodupois Kits

Class Specification: NIST HB 105-1 (1990), Class F

Condition: Suitable for legal metrology.
Minor wear noted.

Serial No: W65787, KS-1AD2, KS-4A, KS-118, 1BD1, KS-802

Manufacture: Rice Lake

Material: Stainless Steel

Calibration Information

Metrologist: K Scott

Temperature: 19.74 °C to 20.41 °C

Equipment Used: MCM5004, MTAX206, MTXPR6U

Mean: 20.12 °C

Procedure: NISTIR 6969 (2019): SOP 8,
Recommended Standard Operating
Procedure for Medium Accuracy
Calibration of Mass Standards by Modified
Substitution

Pressure: 732.13 mmHg to 733.10 mmHg

Mean: 732.51 mmHg

Relative Humidity: 47.93 % to 52.58 %

Mean: 49.40 %

*Data for individual calibrations is
available upon request.*

Calibration Results

Nominal Mass	Serial No. / ID	Manufacture	Conventional Mass Correction		U ± (mg)	k factor	Assumed Density (g/cm ³)	ASTM E617-18 Class Tolerance Met		NIST HB 105-1 (1990), Class F MPE ± (mg)	Compliance with NIST HB 105-1 (1990), Class F	
			As Found (mg)	As Left (mg)				As Found	As Left		As Found	As Left
5 lb	KS-802; A	Rice Lake	62	62	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	KS-802; B	Rice Lake	63	63	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	KS-802; C	Rice Lake	42	42	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	KS-802; D	Rice Lake	59	59	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	KS-802; E	Rice Lake	63	63	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	1BD1; A	Rice Lake	73	73	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	1BD1; B	Rice Lake	31	31	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	1BD1; C	Rice Lake	55	55	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	1BD1; D	Rice Lake	78	78	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	1BD1; E	Rice Lake	81	81	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	KS-4A; 41	Rice Lake	-9	-9	28	2.0145	7.95	4	4	230	Pass	Pass
5 lb	KS-4A; 42	Rice Lake	19	19	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	KS-4A; 43	Rice Lake	-35	-35	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	KS-4A; 44	Rice Lake	-7	-7	28	2.0145	7.95	4	4	230	Pass	Pass
5 lb	KS-118; 1	Rice Lake	15	15	28	2.0145	7.95	4	4	230	Pass	Pass
5 lb	KS-118; 2	Rice Lake	66	66	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	KS-118; 3	Rice Lake	37	37	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	KS-118; 4	Rice Lake	45	45	28	2.0145	7.95	5	5	230	Pass	Pass

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5 lb	KS-118; 5	Rice Lake	67	67	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	KS-1AD2; no mar	Rice Lake	74	74	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	KS-L486; 11	Rice Lake	49	49	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	KS-L486; 12	Rice Lake	11	11	28	2.0145	7.95	4	4	230	Pass	Pass
5 lb	KS-L486; 13	Rice Lake	27	27	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	KS-L486; 14	Rice Lake	26	26	28	2.0145	7.95	5	5	230	Pass	Pass
5 lb	KS-L486; 15	Rice Lake	44	44	28	2.0145	7.95	5	5	230	Pass	Pass
2 lb	KS-1AD2; no do	Rice Lake	21	21	12	2.0157	7.95	5	5	91	Pass	Pass
2 lb	KS-1AD2; dot	Rice Lake	9	9	12	2.0157	7.95	5	5	91	Pass	Pass
1 lb	KS-802; A	Rice Lake	11.9	11.9	9	2.0122	7.95	5	5	70	Pass	Pass
1 lb	KS-802; B	Rice Lake	15.9	15.9	9	2.0122	7.95	6	6	70	Pass	Pass
1 lb	KS-802; C	Rice Lake	16.6	16.6	9	2.0122	7.95	6	6	70	Pass	Pass
1 lb	KS-802; D	Rice Lake	10.3	10.3	9	2.0122	7.95	5	5	70	Pass	Pass
1 lb	KS-802; E	Rice Lake	18	18	9	2.0122	7.95	6	6	70	Pass	Pass
1 lb	1BD1; A	Rice Lake	26.7	26.7	9	2.0122	7.95	6	6	70	Pass	Pass
1 lb	1BD1; B	Rice Lake	21.4	21.4	9	2.0122	7.95	6	6	70	Pass	Pass
1 lb	1BD1; C	Rice Lake	11.1	11.1	9	2.0122	7.95	5	5	70	Pass	Pass
1 lb	1BD1; D	Rice Lake	16	16	9	2.0122	7.95	6	6	70	Pass	Pass
1 lb	1BD1; E	Rice Lake	15.5	15.5	9	2.0122	7.95	6	6	70	Pass	Pass
1 lb	KS-4A; 5	Rice Lake	-3.1	-3.1	9	2.0122	7.95	5	5	70	Pass	Pass
1 lb	KS-4A; 6	Rice Lake	-13.5	-13.5	9	2.0122	7.95	5	5	70	Pass	Pass
1 lb	KS-4A; 7	Rice Lake	20.2	20.2	9	2.0122	7.95	6	6	70	Pass	Pass
1 lb	KS-4A; 8	Rice Lake	-15.6	-15.6	9	2.0122	7.95	6	6	70	Pass	Pass
1 lb	KS-4A; 9	Rice Lake	-7.1	-7.1	9	2.0122	7.95	5	5	70	Pass	Pass
1 lb	KS-118; 1	Rice Lake	14.6	14.6	9	2.0122	7.95	6	6	70	Pass	Pass
1 lb	KS-118; 2	Rice Lake	36.9	36.9	9	2.0122	7.95	7	7	70	Pass	Pass
1 lb	KS-118; 3	Rice Lake	30.1	30.1	9	2.0122	7.95	6	6	70	Pass	Pass
1 lb	KS-118; 4	Rice Lake	29.2	29.2	9	2.0122	7.95	6	6	70	Pass	Pass
1 lb	KS-118; 5	Rice Lake	32.6	32.6	9	2.0122	7.95	6	6	70	Pass	Pass
1 lb	KS-1AD2; no mar	Rice Lake	19.8	19.8	9	2.0122	7.95	6	6	70	Pass	Pass
1 lb	KS-L486; 1	Rice Lake	18.8	18.8	9	2.0122	7.95	6	6	70	Pass	Pass
1 lb	KS-L486; 2	Rice Lake	18.6	18.6	9	2.0122	7.95	6	6	70	Pass	Pass
1 lb	KS-L486; 3	Rice Lake	29.6	29.6	9	2.0122	7.95	6	6	70	Pass	Pass
1 lb	KS-L486; 4	Rice Lake	10.6	10.6	9	2.0122	7.95	5	5	70	Pass	Pass
1 lb	KS-L486; 5	Rice Lake	20.6	20.6	9	2.0122	7.95	6	6	70	Pass	Pass
0.5 lb	W65787; A	Rice Lake	0.7	0.7	6	2.0136	7.95	5	5	45	Pass	Pass
0.5 lb	W65787; B	Rice Lake	4.8	4.8	6	2.0136	7.95	5	5	45	Pass	Pass
0.5 lb	W65787; C	Rice Lake	1.8	1.8	6	2.0136	7.95	5	5	45	Pass	Pass
0.5 lb	W65787; D	Rice Lake	5	5	6	2.0136	7.95	5	5	45	Pass	Pass
0.5 lb	W65787; E	Rice Lake	1.4	1.4	6	2.0136	7.95	5	5	45	Pass	Pass
0.5 lb	W65787; F	Rice Lake	1.4	1.4	6	2.0136	7.95	5	5	45	Pass	Pass
0.5 lb	W65787; G	Rice Lake	3.5	3.5	6	2.0136	7.95	5	5	45	Pass	Pass
0.5 lb	W65787; H	Rice Lake	3	3	6	2.0136	7.95	5	5	45	Pass	Pass
0.5 lb	W65787; I	Rice Lake	4.1	4.1	6	2.0136	7.95	5	5	45	Pass	Pass
0.5 lb	W65787; J	Rice Lake	2.8	2.8	6	2.0136	7.95	5	5	45	Pass	Pass
0.5 lb	W65787; K	Rice Lake	4.4	4.4	6	2.0136	7.95	5	5	45	Pass	Pass
0.5 lb	W65787; L	Rice Lake	2.5	2.5	6	2.0136	7.95	5	5	45	Pass	Pass
0.5 lb	W65787; M	Rice Lake	0.9	0.9	6	2.0136	7.95	5	5	45	Pass	Pass
0.5 lb	W65787; N	Rice Lake	3	3	6	2.0136	7.95	5	5	45	Pass	Pass



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0.5 lb	KS-802; no mark	Rice Lake	12.6	12.6	6	2.0136	7.95	6	6	45	Pass	Pass
0.5 lb	1BD1; no mark	Rice Lake	18.1	18.1	6	2.0136	7.95	7	7	45	Pass	Pass
0.5 lb	KS-4A; no mark	Rice Lake	-21.3	-21.3	6	2.0136	7.95	7	7	45	Pass	Pass
0.5 lb	KS-118; no mark	Rice Lake	14.5	14.5	6	2.0136	7.95	6	6	45	Pass	Pass
0.5 lb	KS-1AD2; no mark	Rice Lake	9.5	9.5	6	2.0136	7.95	5	5	45	Pass	Pass
0.5 lb	KS-L486; no mark	Rice Lake	13.9	13.9	6	2.0136	7.95	6	6	45	Pass	Pass
4 oz	KS-4A; no mark	Rice Lake	4.3	4.3	2.7	2.0334	7.95	5	5	23	Pass	Pass
4 oz	KS-118; no mark	Rice Lake	8.3	8.3	2.7	2.0334	7.95	7	7	23	Pass	Pass
4 oz	KS-L486; no mark	Rice Lake	6.7	6.7	2.7	2.0334	7.95	5	5	23	Pass	Pass
0.2 lb	KS-802; no dot	Rice Lake	4.4	4.4	2.2	2.0234	7.95	5	5	18	Pass	Pass
0.2 lb	KS-802; dot	Rice Lake	3.6	3.6	2.2	2.0234	7.95	5	5	18	Pass	Pass
0.2 lb	1BD1; no dot	Rice Lake	5.5	5.5	2.2	2.0234	7.95	5	5	18	Pass	Pass
0.2 lb	1BD1; dot	Rice Lake	7	7	2.2	2.0234	7.95	7	7	18	Pass	Pass
0.2 lb	KS-1AD2; no dot	Rice Lake	7.8	7.8	2.2	2.0234	7.95	7	7	18	Pass	Pass
0.2 lb	KS-1AD2; dot	Rice Lake	7.3	7.3	2.2	2.0234	7.95	7	7	18	Pass	Pass
2 oz	KS-4A; no mark	Rice Lake	-4.9	-4.9	1.3	2.0392	7.95	7	7	11	Pass	Pass
2 oz	KS-118; no mark	Rice Lake	0.5	0.5	1.3	2.0392	7.95	5	5	11	Pass	Pass
2 oz	KS-L486; no mark	Rice Lake	4	4	1.3	2.0392	7.95	5	5	11	Pass	Pass
0.1 lb	KS-802; no mark	Rice Lake	4.6	4.6	1.1	2.0248	7.95	6	6	9.1	Pass	Pass
0.1 lb	1BD1; no mark	Rice Lake	3.4	3.4	1.1	2.0248	7.95	5	5	9.1	Pass	Pass
0.1 lb	KS-1AD2; no mark	Rice Lake	3.6	3.6	1.1	2.0248	7.95	5	5	9.1	Pass	Pass
1 oz	KS-4A; no mark	Rice Lake	-4.07	-4.07	0.65	2.0353	7.95	7	7	5.4	Pass	Pass
1 oz	KS-118; no mark	Rice Lake	2.1	2.1	0.65	2.0353	7.95	5	5	5.4	Pass	Pass
1 oz	KS-L486; no mark	Rice Lake	-0.39	-0.39	0.65	2.0353	7.95	5	5	5.4	Pass	Pass
0.05 lb	KS-802; no mark	Rice Lake	1.28	1.28	0.54	2.0241	7.95	5	5	4.5	Pass	Pass
0.05 lb	1BD1; no mark	Rice Lake	1.88	1.88	0.54	2.0241	7.95	5	5	4.5	Pass	Pass
0.05 lb	KS-1AD2; no mark	Rice Lake	1.41	1.41	0.54	2.0241	7.95	5	5	4.5	Pass	Pass
1/2 oz	KS-4A; no mark	Rice Lake	0.74	0.74	0.34	2.0398	7.95	5	5	2.8	Pass	Pass
1/2 oz	KS-118; no mark	Rice Lake	0.51	0.51	0.34	2.0398	7.95	5	5	2.8	Pass	Pass
1/2 oz	KS-L486; no mark	Rice Lake	1.25	1.25	0.34	2.0398	7.95	5	5	2.8	Pass	Pass
0.02 lb	KS-802; no dot	Rice Lake	0.61	0.61	0.23	2.0256	7.95	5	5	1.8	Pass	Pass
0.02 lb	KS-802; dot	Rice Lake	0.62	0.62	0.23	2.0256	7.95	5	5	1.8	Pass	Pass
0.02 lb	1BD1; no dot	Rice Lake	0.82	0.82	0.23	2.0256	7.95	5	5	1.8	Pass	Pass
0.02 lb	1BD1; dot	Rice Lake	0.61	0.61	0.23	2.0256	7.95	5	5	1.8	Pass	Pass
0.02 lb	KS-1AD2; no dot	Rice Lake	0.08	0.08	0.23	2.0256	7.95	4	4	1.8	Pass	Pass
0.02 lb	KS-1AD2; dot	Rice Lake	0.23	0.23	0.23	2.0256	7.95	5	5	1.8	Pass	Pass
1/4 oz	KS-4A; no mark	Rice Lake	-0.28	-0.28	0.21	2.044	7.95	5	5	1.7	Pass	Pass
1/4 oz	KS-118; no mark	Rice Lake	0.55	0.55	0.21	2.044	7.95	5	5	1.7	Pass	Pass
1/4 oz	KS-L486; no mark	Rice Lake	0.25	0.25	0.21	2.044	7.95	5	5	1.7	Pass	Pass
0.01 lb	KS-802; no mark	Rice Lake	0.75	0.75	0.18	2.0719	7.95	5	5	1.5	Pass	Pass
0.01 lb	1BD1; no mark	Rice Lake	0.43	0.43	0.18	2.0719	7.95	5	5	1.5	Pass	Pass
0.01 lb	KS-1AD2; no mark	Rice Lake	0.67	0.67	0.18	2.0719	7.95	5	5	1.5	Pass	Pass
1/8 oz	KS-4A; no mark	Rice Lake	0.84	0.84	0.16	2.1812	7.95	5	5	1.3	Pass	Pass
1/8 oz	KS-118; no mark	Rice Lake	0.68	0.68	0.16	2.1812	7.95	5	5	1.3	Pass	Pass
1/8 oz	KS-L486; no mark	Rice Lake	0.43	0.43	0.16	2.1812	7.95	5	5	1.3	Pass	Pass
0.005 lb	KS-802; no mark	Rice Lake	0.84	0.84	0.15	2.0699	7.95	7	7	1.2	Pass	Pass
0.005 lb	1BD1; no mark	Rice Lake	0.32	0.32	0.15	2.0699	7.95	5	5	1.2	Pass	Pass
0.005 lb	KS-1AD2; no mark	Rice Lake	0.65	0.65	0.15	2.0699	7.95	5	5	1.2	Pass	Pass
1/16 oz	KS-4A; no mark	Rice Lake	-0.3	-0.3	0.13	2.0645	7.95	5	5	1.1	Pass	Pass

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1/16 oz	KS-L486; no mark	Rice Lake	0.31	0.31	0.13	2.0645	7.95	5	5	1.1	Pass	Pass
0.002 lb	KS-802; no dot	Rice Lake	0.2	0.2	0.11	2.074	7.95	5	5	0.87	Pass	Pass
0.002 lb	KS-802; dot	Rice Lake	0.68	0.68	0.11	2.074	7.95	6	6	0.87	Pass	Pass
0.002 lb	1BD1; no dot	Rice Lake	0.35	0.35	0.11	2.074	7.95	5	5	0.87	Pass	Pass
0.002 lb	1BD1; dot	Rice Lake	0.32	0.32	0.11	2.074	7.95	5	5	0.87	Pass	Pass
0.002 lb	KS-1AD2; no dot	Rice Lake	0.53	0.53	0.11	2.074	7.95	6	6	0.87	Pass	Pass
0.002 lb	KS-1AD2; dot	Rice Lake	0.48	0.48	0.11	2.074	7.95	6	6	0.87	Pass	Pass
1/32 oz	KS-4A; no dot	Rice Lake	-0.53	-0.53	0.11	2.1051	7.95	6	6	0.87	Pass	Pass
1/32 oz	KS-4A; dot	Rice Lake	0.61	0.61	0.11	2.1051	7.95	6	6	0.87	Pass	Pass
1/32 oz	KS-118; no dot	Rice Lake	-0.05	-0.05	0.11	2.1051	7.95	4	4	0.87	Pass	Pass
1/32 oz	KS-118; dot	Rice Lake	0.53	0.53	0.11	2.1051	7.95	6	6	0.87	Pass	Pass
1/32 oz	KS-L486; no mark	Rice Lake	0.46	0.46	0.11	2.1051	7.95	6	6	0.87	Pass	Pass
0.001 lb	KS-802; no mark	Rice Lake	-0.1	-0.1	0.083	2.0719	7.95	5	5	0.7	Pass	Pass
0.001 lb	1BD1; no mark	Rice Lake	0.585	0.585	0.083	2.0719	7.95	6	6	0.7	Pass	Pass
0.001 lb	KS-1AD2; no mark	Rice Lake	0.165	0.165	0.083	2.0719	7.95	5	5	0.7	Pass	Pass

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Traceability Statement

The artifact(s) described in this calibration certificate have been compared to the Standards of the State of Indiana. The Standards of the State of Indiana are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The SI unit for mass is the kilogram (kg) (see Conversion Factors below). The certificate number for this calibration is the only unique number to be used in referencing measurement traceability for the artifact(s) described in this calibration certificate.

Uncertainty Statement

The combined standard uncertainty includes uncertainties reported for the standard, uncertainties associated with the measurement process, uncertainties for any observed deviations from reference values which are less than surveillance limits (previous similar determinations have demonstrated that the maximum permissible errors are sufficiently large that buoyancy corrections are not usually significant [i.e., corrections & their uncertainty will not change the last decimal place of the calibration value or uncertainty (with uncertainty rounded to 2 significant digits)]. The combined standard uncertainty is multiplied by a coverage factor, k , to give the expanded uncertainty, which defines an interval with a 95.45 % level of confidence. The expanded uncertainty presented in this calibration certificate is consistent with the Bureau International des Poids et Mesures (BIPM) Guide to the Expression of Uncertainty in Measurement (2008) (GUM). No Surface Roughness evaluation or Magnetic Susceptibility testing has been performed and as a result there are no components for the effects of either in the uncertainty budget.

Conformity Statement

These artifacts were evaluated using NISTIR 6969: Selected Laboratory and Measurement Practices and Procedures to Support Basic Mass Calibrations (2019), SOP 8 Recommended Standard Operating Procedure for Medium Accuracy Calibration of Mass Standards by Modified Substitution. The artifacts notated with "Pass" in the Calibration Results section have been found and/or left within the Maximum Permissible Error (MPE) for NIST HB 105-1 (1990), Class F and are in compliance with that specification. An artifact is considered in compliance when the conventional mass correction plus the measurement uncertainty is equal to or less than the MPE. Bold print and a "Fail" notation indicates an out-of-compliance reading. No Surface Roughness evaluation or Magnetic Susceptibility testing has been performed. Possession of this certificate does imply this artifact meets any other requirements or statutes that may be required.

Pertinent Information

In accordance with Indiana Code (IC) 24-6-3-2, a calibration interval or recall date must be assigned to to all calibrations performed by this laboratory. The results listed in this calibration certificate relate only to the artifacts described and extent of calibrations performed. All corrections stated in this calibration certificate correlate to a "Conventional Mass" (CM), also known as 'apparent mass', scale verses 8.0 g/cm^3 reference mass density and an air density of 0.0012 g/cm^3 at $20 \text{ }^\circ\text{C}$.

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Conversion Factors

From NIST Special Publication 811, *Guide for the Use of the International System of Units (SI)*

Factors in **boldface** are exact

To convert from	to	multiply by
carat, metric	to kilogram (kg)	2.0 E-04
grain (gr)	to kilogram (kg)	6.479 891 E-05
ounce (avoirdupois) (oz)	to kilogram (kg)	2.834 952 E-02
ounce (troy or apothecary) (oz)	to kilogram (kg)	3.110 348 E-02
dram (apothecary) (dr)	to kilogram (kg)	3.887 934 6 E-03
scruple (apothecary) (s)	to kilogram (kg)	1.295 978 2 E-03
pennyweight (dwt)	to kilogram (kg)	1.555 174 E-03
pound (avoirdupois) (lb)	to kilogram (kg)	4.535 923 7 E-01

I declare or certify under penalty of perjury under the laws of the State of Indiana that the foregoing is true and correct:

Signed on this 21st day of July, 2022 in the city of Indianapolis, Marion County, Indiana

Authorized Signatory

Howard Wickersham

Metrologist, ISDH

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