CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Charles S. Freeman Co., Inc.
3755 Harlem Road
Buffalo, NY 14215

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

CALIBRATION

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

Jason Stine, Vice President

Expiry Date: 19 January 2028

Certificate Number: AC-3062

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Charles S Freeman Co., Inc.

3755 Harlem Road
Buffalo, NY 14215

Russ Cordier 716-836-3801

CALIBRATION

ISO/IEC 17025 Accreditation Granted: **15 January 2026**

Certificate Number: **AC-3062** Certificate Expiry Date: **19 January 2028**

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Scales [1]	Up to 10 lb (10 to 100) lb (100 to 1 000) lb (1 000 to 120 000) lb	0.001 6 lb 0.01 lb 0.063 lb 12 lb	Comparison to NIST Class F Weights
Balances [1]	Up to 12 kg	0.12 g	Comparison to ASTM Class 1 Mass
	(12 to 300) kg	6.2 g	Comparison to ASTM Class 4 Mass
Force Measurement (Compression/Tension)	Up to 175 lbf	0.055 lbf	Comparison to ASTM Class 4 Mass
	(175 to 10 000) lbf	13 lbf	Comparison to ASTM E75 Load Cells
NIST Class F Test Weight	0.05 lb 0.1 lb 0.2 lb 0.5 lb 1 lb 2 lb 5 lb 10 lb 25 lb 50 lb	0.000 002 8 lb 0.000 002 8 lb 0.000 003 1 lb 0.000 003 2 lb 0.000 004 1 lb 0.000 029 lb 0.000 031 lb 0.000 027 lb 0.000 23 lb 0.000 27 lb	Comparison to ASTM Class 1 Mass

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Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
ASTM Class 4 Weight	0.2 lb 0.5 lb 1 lb 2 lb 5 lb 10 lb 25 lb 50 lb	0.000 003 1 lb 0.000 003 2 lb 0.000 004 1 lb 0.000 029 lb 0.000 031 lb 0.000 027 lb 0.000 23 lb 0.000 27 lb	Comparison to ASTM Class 1 Mass

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
2. The CMC for scales and balances is highly dependent upon the resolution of the unit under test. The CMC presented here does not include the resolution of the unit under test. The resolution will be included in the reported measurement uncertainty at the time of calibration.

Jason Stine, Vice President

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