CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

John J. McIntyre Sons Inc.

514 Knorr Street
Philadelphia, PA 19111

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.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 31 May 2022
Certificate Number: AC-1228

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

John J. McIntyre Sons Inc.
514 Knorr Street
Philadelphia, PA 19111
Chuck McIntyre
215-745-3304

CALIBRATION

Valid to: **May 31, 2022** Certificate Number: **AC-1228**

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Lab Balance[1,2]	(10 to 100) g 100 g to 32 kg	0.31 mg 0.000 3 % of reading	Class 1 Weights and NIST Handbook 44 utilized for the calibration of the weighing system.
Bench/Floor Scale[1,2]	(5 to 20 000) lb	0.013 % of reading	Class F Weights and NIST Handbook 44 utilized for the calibration of the weighing system.
Crane Scale[1,2]	(20 to 50 000) lb	0.013 % of reading	
Forklift Scale[1,2]	(100 to 5 000) lb	0.017 % of reading	
Tank Scale[1,2]	(20 to 40 000) lb	0.013 % of reading	
Truck Scale[1,2]	(100 to 200 000) lb	0.013 % of reading	
Force Gage[1,2]	(1 to 100) lbf	0.013 % of reading	Class F Weights

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 uncertainty listed does not include unit under test uncertainty contributors such as readability and/or repeatability. The reported uncertainty at time of calibration will be higher with the addition of these factors.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1228.

R. Douglas Leonard Jr., VP, PILR SBU