



# 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](http://www.anab.org).

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 31 May 2024

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 212-745-3304

**CALIBRATION**

Valid to: **May 31, 2024**

Certificate Number: **AC-1228**

**Mass and Mass Related**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Lab Balances <sup>1,2</sup>	(10 to 100) g 100 g to 32 kg	0.31 g 0.0003 % of reading	ASTM E617 Class 1 Weights and NIST Handbook 44 utilized in the calibration of the weighing system.
Bench/Floor Scales <sup>1,2</sup>	(5 to 20 000) lb	0.013 % of reading	NIST Class F Weights and NIST Handbook 44 utilized in the calibration of the weighing system.
Crane Scales <sup>1,2</sup>	(20 to 50 000) lb	0.013 % of reading	
Forklift Scales <sup>1,2</sup>	(100 to 5 000) lb	0.017 % of reading	
Tank Scales <sup>1,2</sup>	(20 to 40 000) lb	0.013 % of reading	
Truck Scales <sup>1,2</sup>	(100 to 200 000) lb	0.013 % of reading	
Force Gages <sup>1,3</sup>	(1 to 100) lbf	0.013 % of reading	NIST 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 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.
3. 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.
4. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1228.



R. Douglas Leonard Jr., VP, PILR SBU

