



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017
& ANSI/NCSL Z540-1-1994

METTLER TOLEDO (INDUSTRIAL)
1900 Polaris Parkway
Columbus, OH 43240
Scott Wittke Phone: 630 936 6538

CALIBRATION

Valid To: April 30, 2025

Certificate No: 1902.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1,4,6}:

I. Mechanical

Parameter/Equipment	Range	CMC ^{2,5} (±)	Comments
Balances and Scales, Metric ³	≤ 500 mg > 500 mg to ≤ 5 g (> 5 to ≤ 10) g (> 10 to ≤ 30) g (> 30 to ≤ 50) g (> 50 to ≤ 80) g (> 80 to ≤ 100) g (> 100 to ≤ 150) g (> 150 to ≤ 200) g (> 200 to ≤ 300) g (> 300 to ≤ 500) g	0.0087 mg 0.013 mg 0.017 mg 0.023 mg 0.036 mg 0.057 mg 0.11 mg 0.14 mg 0.17 mg 0.24 mg 0.89 mg	ASTM 0 weights

Parameter/Equipment	Range	CMC ^{2,5} (±)	Comments
Balances and Scales, Metric ³ (cont)	(> 500 to ≤ 1000) g	8.7 mg	ASTM 2 weights
	(> 1 to ≤ 1.5) kg	9.3 mg	
	(> 1.5 to ≤ 2) kg	10 mg	
	(> 2 to ≤ 3) kg	12 mg	
	(> 3 to ≤ 4) kg	14 mg	
	(> 4 to ≤ 5) kg	17 mg	
	(> 5 to ≤ 6) kg	19 mg	
	(> 6 to ≤ 8) kg	85 mg	
	(> 8 to ≤ 10) kg	87 mg	
	(> 10 to ≤ 15) kg	93 mg	
	(> 15 to ≤ 25) kg	410 mg	
	(> 25 to ≤ 32) kg	420 mg	
	(> 32 to ≤ 50) kg	830 mg	
	(> 50 to ≤ 80) kg	850 mg	
	(> 80 to ≤ 100) kg	870 mg	
	(> 100 to ≤ 150) kg	930 mg	
	(> 150 to ≤ 200) kg	1000 mg	
	(> 200 to ≤ 300) kg	1200 mg	
	(> 300 to ≤ 400) kg	8200 mg	
	(> 400 to ≤ 500) kg	8300 mg	
	(> 500 to ≤ 600) kg	8400 mg	
	(> 600 to ≤ 700) kg	0.088 kg	NIST F weights
	(> 700 to ≤ 800) kg	0.10 kg	
	(> 800 to ≤ 1000) kg	0.13 kg	
	(> 1000 to ≤ 1500) kg	0.19 kg	
	(> 1500 to ≤ 2000) kg	0.25 kg	
	(> 2000 to ≤ 2500) kg	0.31 kg	
	(> 2500 to ≤ 3000) kg	0.38 kg	
	(> 3000 to ≤ 4000) kg	0.50 kg	
	(> 4000 to ≤ 5000) kg	0.63 kg	
	(> 5000 to ≤ 6000) kg	1.1 kg	
	(> 6000 to ≤ 8000) kg	1.3 kg	
	(> 8000 to ≤ 10 000) kg	1.5 kg	
	(> 10 000 to ≤ 15 000) kg	2.5 kg	
	(> 15 000 to ≤ 20 000) kg	3.0 kg	
	(> 20 000 to ≤ 25 000) kg	5.1 kg	
(> 25 000 to ≤ 30 000) kg	9.0 kg		
(> 30 000 to ≤ 40 000) kg	9.6 kg		
(> 40 000 to ≤ 50 000) kg	10 kg		
(> 50 000 to ≤ 60 000) kg	11 kg		
(> 60 000 to ≤ 80 000) kg	13 kg		
(> 80 000 to ≤ 100 000) kg	15 kg		
(> 100 000 to ≤ 120 000) kg	17 kg		
(> 120 000 to ≤ 140 000) kg	19 kg		

Parameter/Equipment	Range	CMC ^{2,5} (\pm)	Comments
Balances and Scales, Avoirdupois ³	≤ 0.2 lb	0.000 17 lb	NIST F weights
	> 0.2 to ≤ 0.5) lb	0.000 20 lb	
	> 0.5 to ≤ 1) lb	0.000 24 lb	
	> 1 to ≤ 2) lb	0.000 29 lb	
	> 2 to ≤ 3) lb	0.000 55 lb	
	> 3 to ≤ 4) lb	0.000 64 lb	
	> 4 to ≤ 5) lb	0.000 73 lb	
	> 5 to ≤ 6) lb	0.000 84 lb	
	> 6 to ≤ 7) lb	0.000 94 lb	
	> 7 to ≤ 7.5) lb	0.0011 lb	
	> 7.5 to ≤ 8) lb	0.0013 lb	
	> 8 to ≤ 9) lb	0.0014 lb	
	> 9 to ≤ 10) lb	0.0015 lb	
	> 10 to ≤ 12) lb	0.0017 lb	
	> 12 to ≤ 15) lb	0.0024 lb	
	> 15 to ≤ 20) lb	0.0029 lb	
	> 20 to ≤ 25) lb	0.0035 lb	
	> 25 to ≤ 30) lb	0.0040 lb	
	> 30 to ≤ 40) lb	0.0051 lb	
	> 40 to ≤ 50) lb	0.0063 lb	
	> 50 to ≤ 60) lb	0.0084 lb	
	> 60 to ≤ 70) lb	0.0094 lb	
	> 70 to ≤ 75) lb	0.010 lb	
	> 75 to ≤ 80) lb	0.013 lb	
	> 80 to ≤ 100) lb	0.015 lb	
	> 100 to ≤ 120) lb	0.017 lb	
	> 120 to ≤ 150) lb	0.020 lb	
	> 150 to ≤ 200) lb	0.048 lb	
	> 200 to ≤ 250) lb	0.051 lb	
	> 250 to ≤ 300) lb	0.055 lb	
	> 300 to ≤ 400) lb	0.095 lb	
	> 400 to ≤ 500) lb	0.10 lb	
	> 500 to ≤ 700) lb	0.12 lb	
	> 700 to ≤ 1000) lb	0.15 lb	
	> 1000 to ≤ 1500) lb	0.45 lb	
	> 1500 to ≤ 2000) lb	0.48 lb	
	> 2000 to ≤ 2500) lb	0.51 lb	
	> 2500 to ≤ 3000) lb	0.55 lb	
	> 3000 to ≤ 4000) lb	0.64 lb	
	> 4000 to ≤ 5000) lb	0.73 lb	
> 5000 to ≤ 7000) lb	1.2 lb		
> 7000 to $\leq 10\ 000$) lb	1.5 lb		
$> 10\ 000$ to $\leq 15\ 000$) lb	4.5 lb		
$> 15\ 000$ to $\leq 20\ 000$) lb	4.8 lb		
$> 20\ 000$ to $\leq 25\ 000$) lb	5.1 lb		
$> 25\ 000$ to $\leq 30\ 000$) lb	5.5 lb		
$> 30\ 000$ to $\leq 40\ 000$) lb	6.4 lb		
$> 40\ 000$ to $\leq 50\ 000$) lb	7.3 lb		
$> 50\ 000$ to $\leq 60\ 000$) lb	8.4 lb		

Parameter/Equipment	Range	CMC ^{2,5} (±)	Comments
Balances and Scales, Avoirdupois ³ (cont)	(> 60 000 to ≤ 70 000) lb (> 70 000 to ≤ 100 000) lb (> 100 000 to ≤ 120 000) lb	18 lb 20 lb 22 lb	NIST F weights
Tank Scales, Metric ³	(≥ 1000 to ≤ 4000) kg (> 4000 to ≤ 8000) kg (> 8000 to ≤ 12 000) kg (> 12 000 to ≤ 16 000) kg (> 16 000 to ≤ 24 000) kg (> 24 000 to ≤ 32 000) kg	0.99 kg 1.7 kg 2.3 kg 2.8 kg 4.2 kg 5.0 kg	RapidCal™ Tank Scale Calibration
Tank Scales, Avoirdupois ³	(≥ 2200 to ≤ 8800) lb (> 8800 to ≤ 17 600) lb (> 17 600 to ≤ 26 400) lb (> 26 400 to ≤ 35 000) lb (> 35 000 to ≤ 53 000) lb (> 53 000 to ≤ 70 000) lb	2.2 lb 3.7 lb 5.1 lb 6.7 lb 9.1 lb 11 lb	RapidCal™ Tank Scale Calibration

¹ This laboratory offers commercial calibration service and field calibration service.

² Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ Field calibration service is available for this calibration. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

⁴ This accreditation includes those field service representatives located in the United States and Canada reporting to Mettler Toledo (Industrial), Columbus, OH.

⁵ CMC components that can be reasonably attributed to the Unit Under Test have not been utilized in the calculation of the CMC value for this measurement parameter.

⁶ This scope meets A2LA's *P112 Flexible Scope Policy*.



Accredited Laboratory

A2LA has accredited

METTLER TOLEDO (INDUSTRIAL)

Columbus, OH

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of ANSI/NCCL Z540-1-1994 and R205 – Specific Requirements: Calibration Laboratory Accreditation Program. 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).



Presented this 3rd day of February 2023.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1902.01
Valid to April 30, 2025

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.