

Mass Calibration Report

METTLER TOLEDO

Report No: MC2306192-1

Mettler-Toledo (S) Pte Ltd

Address 1 Clementi Loop #02-03A, Singapore 129808
Telephone 65 6890 0011
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Customer Information

Name of customer : Mettler-Toledo Pac Rim AG Taiwan Branch (Switzerland)
Customer Address : Jiu Zong Rd Neihu District 17 Lane 171 Sec 2 Taipei Taiwan R.O.C.11494
Taiwan

Customer's Weight Information

Customer Weight Serial No/ ID : 158856 / SVC-W063
Customer's Weight Range : 1mg - 1kg
Customer's Weight Class : E Class
Customer Weight Manufacturer : Mettler-Toledo

Calibration Location

METTLER TOLEDO Mass Calibration Laboratory
1 Clementi Loop #02-03A, Singapore 129808


Calibration Information


Calibration Date : 30-Jun-23
Report Issue Date : 31-Jul-23
Work Order No. : 220690009
Equipment Type : Mass Comparator
Manufacturer : Mettler Toledo

Details of Mass Comparators can be found on Pg 2

Environment Conditions

Atmospheric Pressure, hPa : 1010.95
Ambient Temperature, °C : 20.6
Relative Humidity, %RH : 54.2


Cheng Yu Xiang
Calibration Officer


Chua Wen Feng
Approved Signatory



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Method of Calibration

The calibration procedure is performed according to Mettler-Toledo quality procedure reference no. QP-SVC-9-020 and using Standard mass set serial number C314945270 traceable to international standards with calibration report number C314945270.

The calibration was performed by comparison with the reference weights of the Calibration Laboratory in a controlled environment by using substitution weighing method (ABA) on a mass comparator. The conventional mass values were determined.

Reference

Conventional density of the weights : 8000 kg/m³
 Mean air density : 1.19 kg/m³

Reference standards instrument :

Instrument	OIML Class	Model	Serial No.	Certificate No.	Due Date
Mass comparator	N/A	XP205CDR	B321363756	SG0091-022-072722-ACC-SG	27-Jul-23
Mass comparator	N/A	XP2004S	B323399156	SG0112-047-080422-ACC-SG	4-Aug-23
Mass comparator	N/A	XP26003L	B323399155	SG0112-048-080422-ACC-SG	4-Aug-23
Mass comparator	N/A	XPE26C	B502454763	SG0112-046-080422-ACC-SG	4-Aug-23
Mass comparator	N/A	XPE505C	B502465607	SG0091-023-072722-ACC-SG	27-Jul-23
METTLER TOLEDO Weight Set	E1	1mg to 2kg	C314945270	C314945270	19-Apr-24

The results reported herein have been performed in accordance with the laboratory's term of accreditation under Singapore Accreditation Council - Singapore Laboratory Accreditation Scheme.

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 Cheng Yu Xiang
 Calibration Officer



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Results of Calibration

Nominal Value	Marking/ Serial No.	OIML Class	Conventional Mass Correction g	Measured Conventional Mass g	Expanded Uncertainty g	OIML Tolerance g	Within Class Tolerance? (Y / N)
1mg		E2	0.000002	0.001002	0.00000200	0.000006	Y
2mg		E2	0.000003	0.002003	0.00000200	0.000006	Y
2mg	*	E2	0.000001	0.002001	0.00000200	0.000006	Y
5mg		E2	0.000003	0.005003	0.00000200	0.000006	Y
10mg		E2	0.000003	0.010003	0.00000267	0.000008	Y
20mg		E2	0.000003	0.020003	0.00000333	0.000010	Y
20mg	*	E2	0.000005	0.020005	0.00000333	0.000010	Y
50mg		E2	0.000006	0.050006	0.00000400	0.000012	Y
100mg		E2	0.000003	0.100003	0.00000533	0.000016	Y
200mg		E2	0.000009	0.200009	0.00000667	0.000020	Y
200mg	*	E2	0.000005	0.200005	0.00000667	0.000020	Y
500mg		E2	0.000012	0.500012	0.00000833	0.000025	Y
1g		E2	0.000012	1.000012	0.00001000	0.000030	Y
2g		E2	0.000006	2.000006	0.00001333	0.000040	Y
2g	*	E2	0.000005	2.000005	0.00001333	0.000040	Y
5g		E2	0.000010	5.000010	0.00001667	0.000050	Y
10g		E2	0.000031	10.000031	0.00002000	0.000060	Y
20g		E2	0.000020	20.000020	0.00002667	0.000080	Y
20g	*	E2	0.000003	20.000003	0.00002667	0.000080	Y
50g		E2	0.000004	50.000004	0.00003000	0.000100	Y
100g		E2	0.000002	100.000002	0.00005333	0.000160	Y
200g		E2	0.000003	200.000003	0.00010000	0.000300	Y
200g	*	E2	0.000003	200.000003	0.00010000	0.000300	Y
500g		E2	0.000026	500.000026	0.00026667	0.000800	Y
1kg		E2	0.000008	1000.000008	0.00053333	0.001600	Y

Note : Asterisk mark " * " denotes weights with marking or bent tip.

The calibration results apply only on the above calibrated item and was found accurate as shown on date and place of calibration.

 The associated expanded uncertainty of measurement were estimated at a level of confidence of approximately 95% with a coverage factor of $k = 2$.

The user should determine the suitability of the weight(s) for its intended use.



 Cheng Yu Xiang
 Calibration Officer
