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CALIBRATION

Valid To: September 30, 2028

Certificate Number: 7723.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with R205 – A2LA's Calibration Program Requirements), accreditation is granted to this laboratory to perform the following calibrations^{1,4}:

I. Mechanical

Parameter/Equipment	Range	CMC ² (±)	Comments
Balance ³	(1 to 500 mg) >500 mg to 5 g (1 to 500) mg >500 mg to 10 g (>10 to 20) g (>20 to 50) g (>50 to 200) g (>300 to 500) g >500 g to 1 kg 100 mg to 500 g >500 g to 5 kg (>5 to 10) kg (>10 to 20) kg (>20 to 25) kg 50 g to 2 kg (>2 to 10) kg (>10 to 20) kg (>20 to 30) kg 10 mg to 20 g (>20 to 300) g	0.036 mg(readability 0.001 mg) 0.048 mg(readability 0.001 mg) 0.05 mg(readability 0.01 mg) 0.08 mg(readability 0.01 mg) 0.11 mg(readability 0.01 mg) 0.17 mg(readability 0.01 mg) 0.46 mg(readability 0.01 mg) 6.1 mg(readability 0.1 mg) 6.5 mg(readability 0.1 mg) 14 mg(readability 1 mg) 20 mg(readability 1 mg) 0.021 g(readability 1 mg) 0.033 g(readability 1 mg) 0.042 g(readability 1 mg) 0.17 g(readability 5 mg) 0.19 g(readability 5 mg) 0.26 g(readability 5 mg) 0.35 g(readability 5 mg) 0.4 mg(readability 0.1 mg) 1.0 mg(readability 0.1 mg)	Working standards: Weight sets METTLER/1 mg-1 kg/E ₂ METTLER/1 kg-20 kg/E ₂ DER HER/1 mg-20 kg/E ₂

Parameter/Equipment	Range	CMC ² (±)	Comments
Electronic weighing instrument ³	50 g to 60 kg 100 g to 75 kg 500 g to 150 kg 500 g to 300 kg (1 to 200) kg (>200 to 400) kg (>400 to 600) kg	3 g(readability 1 mg) 10 g(readability 5 mg) 30 g(readability 10 mg) 20 g(readability 10 mg) 0.10 kg(readability 50 mg) 0.15 kg(readability 50 mg) 0.20 kg(readability 50 mg)	Working standards: Weight sets METTLER/1 mg- 1 kg/E ₂ METTLER/1 kg- 20 kg/E ₂ METTLER/1 kg- 5 kg/F ₁ DER HER/1 mg- 20 kg/E ₂ DER HER/ 20 kg/F ₁ Toheng/10 kg- 20 kg/F ₁
Weight (stainless)	1 mg 2mg 5mg 10mg 20mg 50mg 100mg 200mg 500mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2kg 5kg 10kg 20kg	0.003 mg 0.004 mg 0.003 mg 0.003 mg 0.004 mg 0.005 mg 0.006 mg 0.006 mg 0.004 mg 0.006 mg 0.009 mg 0.029 mg 0.06 mg 0.07 mg 0.09 mg 0.07 mg 0.10 mg 0.3 mg 0.3 mg 7 mg 0.006 g 0.007 g 0.008 g	Reference standards: Weight sets METTLER/1 mg – 1kg/E ₂ METTLER/2 kg-5 kg/ E ₂ METTLER/10 kg/ E ₂ METTLER/20 kg/E ₂

Parameter/Equipment	Range	CMC ² (±)	Comments
Weight (stainless steel)	1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 60 g 100 g 200 g 300 g 500 g 1 kg 2 kg 4 kg 5 kg 10 kg 20 kg 25 kg 30 kg	0.005 mg 0.005 mg 0.006 mg 0.007 mg 0.005 mg 0.007 mg 0.008 mg 0.007 mg 0.009 mg 0.030 mg 0.033 mg 0.043 mg 0.06 mg 0.06 mg 0.11 mg 0.18 mg 0.16 mg 0.30 mg 0.6 mg 6.1 mg 5.0 mg 8 mg 22 mg 0.035 g 0.047 g 0.066 g 0.099 g 0.16 g	Working standard: Weight set METTLER/ 1 mg- 20 kg/E ₂
Weight (cast iron)	200 g 300 g 500 g 1 kg 2 kg 4 kg 5 kg 6 kg 10 kg 20 kg 25 kg 30 kg	0.43 mg 0.7 mg 6.1 mg 5.3 mg 9 mg 22 mg 0.035 g 0.041 g 0.049 g 0.073 g 0.11 g 0.17 g	Working standards: Weight set METTLER/1 mg- 20 kg/E ₂

Parameter/Equipment	Range	CMC ² (±)	Comments
Weight (brass)	1 g 2 g 5g 10 g 20 g 50g 60 g 100 g 200g 300 g 500g 1 kg 2kg 4kg 5kg 6kg 10kg 20 kg 25 kg 30 kg	0.030 mg 0.033 mg 0.043 mg 0.07 mg 0.07 mg 0.11 mg 0.19 mg 0.18 mg 0.32 mg 0.6 mg 6.1 mg 5.1 mg 8 mg 22 mg 0.035 g 0.040 g 0.047 g 0.067 g 0.10 g 0.17 g	Working standards: Weight set METTLER/1 mg- 20 kg/E ₂

II. Electrical – DC/Low Frequency

Parameter/Range	Range	CMC ^{2, 4} (±)	Comments
DC Voltage – Measure	10 mV 100 mV 1 V 10 V 100 V 1000 V (10 to 100) mV >100 mV to 1000 V	86 µV/V 13 µV/V 6.5 µV/V 6.5 µV/V 9.8 µV/V 12 µV/V 86 µV/V 13 µV/V	Fluke 8508A