



ACCREDITATION Certificate

TO BE ACTIVE AS CALIBRATION LABORATORY

TETAMET METROLOJİ VE KALİBRASYON MERKEZİ

Bahçelievler Mah. Özden Sk. No: 2-2 İlkadım / SAMSUN

As a result of the assessment conducted by the NAC National Accreditation Center LLC, this laboratory is accredited in accordance with the ISO/IEC 17025:2017 standard, which specifies the general requirements for the competence of testing and calibration laboratories, as detailed in the annexes.

Accreditation Number : NAC-002-CL

Accreditation Date : 07/07/2024

This certificate is valid until 07/07/2025, provided that the above-mentioned name and address continue to comply with the relevant standards, as well as international and regional regulations, in addition to the organization's documented compliance with ISO/IEC 17025:2017 General Requirements for the competence of testing and calibration laboratories.



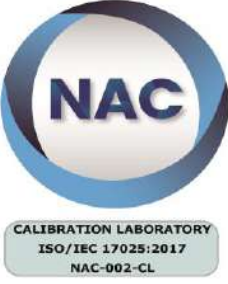
This certificate is given by NAC. The certificate becomes invalid in case of suspension and cancellation of accreditation. For current accreditation information, visit www.nac-us.org or communicate with NAC on info@nac-us.org.



Gaynor
PRESIDENT

Attachment of Accreditation Certificate
SCOPE OF ACCREDITATION

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 CALIBRATION LABORATORY ISO/IEC 17025:2017 NAC-002-CL	NAC ACCREDITATION NUMBER	NAC-002-CL
	COMPANY NAME	Tetamet Metroloji ve Kalibrasyon Merkezi
	ADDRESS	Bahçelievler Mah. Özden Sk. No: 2-2 İlkadım / SAMSUN
	CONTACT NAME	Alper GAZİOĞLU
	TELEPHONE	+905060350806
	ACCREDITATION DATE	07.07.2024
	ACCREDITATION STANDARD	ISO/IEC 17025:2017

Accreditation Area		General requirements for the competence of testing and calibration laboratories	
Accreditation Standard		ISO/IEC 17025:2017	
Certification Sectors			
CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY ¹ (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT
Calipers	0- 150 mm 150-450 mm 450-1000mm	8,6 µm 12,7 µm 21,4 µm	Bloch gauge
Micrometers	0 - 25 mm 25 - 150 mm 150 - 450 mm 450 - 1000 mm	3,6 µm 6,1 µm 14,2 µm 29,4 µm	Bloch gauge
Height Gauges	0- 150 mm 150-450 mm 450-1000mm	8,6 µm 12,7 µm 21,4 µm	Bloch gauge
Steel Rules	0 - 2 m	160,6 µm	Gauge rules
Tapes	0-2000 mm 2000-4000 mm 4000-6000 mm 6000-8000 mm 8000-10000 mm 10000-12000 mm 12000-14000 mm 14000-16000 mm 16000-18000 mm 18000-20000 mm 20000-22000 mm 22000-24000 mm 24000-26000 mm 26000-28000 mm 28000-30000 mm 30000-32000 mm 32000-34000 mm 34000-36000 mm 36000-38000 mm 38000-40000 mm 40000-42000 mm 42000-44000 mm 44000-46000 mm 46000-48000 mm 48000-50000 mm	235,0 µm 235,8 µm 237,3 µm 240,0 µm 241,7 µm 244,7 µm 248,2 µm 252,2 µm 256,7 µm 261,7 µm 266,9 µm 272,6 µm 278,6 µm 285,0 µm 291,7 µm 298,7 µm 306,0 µm 313,5 µm 321,3 µm 329,3 µm 337,5 µm 345,9 µm 354,5 µm 363,2 µm 372,1 µm	Gauge rules



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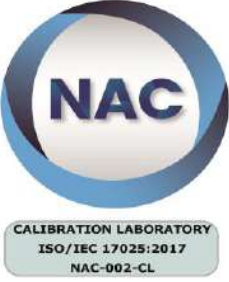
Accreditation Area		General requirements for the competence of testing and calibration laboratories	
Accreditation Standard		ISO/IEC 17025:2017	
Certification Sectors			
CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY1 (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT
RTD Temperature Measure	-30 °C - 90 °C >90 °C - 230 °C >230 °C - 420 °C	0,40 °C 0,39 °C 0,83 °C	SPRT and Calibration Baths
Thermocouples	-30 °C - 90 °C >90 °C - 230 °C >230 °C - 800 °C >800 °C - 1200 °C	0,45 °C 0,40 °C 2,70 °C 3,10 °C	SPRT and S Type Thermocouples and Calibration Baths
Thermometers	-30 °C - 90 °C >90 °C - 230 °C >230 °C - 420 °C >420 °C - 800 °C >800 °C - 1200 °C	0,40 °C 0,39 °C 0,83 °C 2,70 °C 3,10 °C	SPRT and S Type Thermocouples and Calibration Baths
Liquid In Glass	0 °C - 90 °C >90 °C - 230 °C	0,36 °C 0,40 °C	SPRT and Calibration Baths
Radiation Thermometers	50 °C - 200 °C >200 °C - 800 °C >800 °C - 1100 °C	1,3 °C 3,0 °C 3,3 °C	Black Body ε=0,95 (emissivite)



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Certification Sectors			
CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY1 (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT
Digital Displayed Thermometer	-30 °C - 90 °C >90 °C - 230 °C	0,81 °C 0,83 °C	SPRT and S Type Thermocouples and Electrical Calibrator and Calibration Baths
Climatic Chambers Temperature	-30 °C - 100 °C >100 °C - 230 °C	0,74 °C 1,28 °C	Mobile Calibration System
Furnace	200 °C - 800 °C >800 °C - 1200 °C	3,12 °C 3,79 °C	Mob- Calibration System
Autoclave	0 °C - 140 °C	0,42 °c	Mob- Calibration System

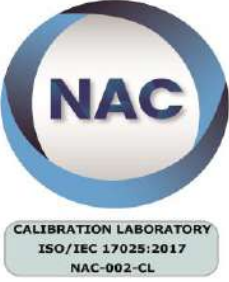


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Temperature and Humidity Meters	30%RH - 80 %RH 23 °C ± 3 °C	1,6 %RH 1,0 °C	Humidity Cabinet - Temperature and Humidity Sensor
Pressure	-0,85 < P ≤ 10bar 10 < P ≤ 700 bar	0,0021 bar 0,6 bar	Pneumatic Calibrator Pneumatic Calibrator Hydraulic Calibrator
Scales and Balances	0 < m ≤ 1000 g 0 g < m ≤ 40 kg 0 kg < m ≤ 2000 kg	2,0 . 10 ⁻⁶ 2,1 . 10 ⁻⁵ 3,3 . 10 ⁻⁵	E2 Mass F1 Mass M1 Mass
Coating Thickness Measurement Device	0 ≤ L ≤ 1 mm 1 < L ≤ 10 mm 10 < L ≤ 100 mm	1,17 μm 1,35 μm 1,40 μm	Calibration procedure prepared according to the comparison method

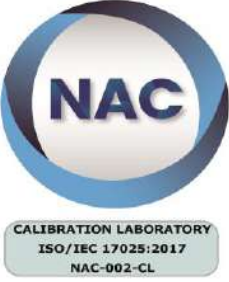


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DC Voltage Measuring devices	1mV - ≤ 20 mV 20mV - ≤ 200 mV 200 mV - ≤ 2 V 2 V - ≤ 20 V 20 V - ≤ 200 V 200 V - ≤ 1100 V	4 μV 4,5 μV 0,15 mV 1,3 mV 1,3 mV 423 V	FLUKE-5101B
AC Voltage Measuring devices	1mV - ≤ 20 mV 50 Hz ≤ f < 10 kHz 1mV - ≤ 20 mV 10 kHz ≤ f < 50 kHz 20mV - ≤ 200 mV 50 Hz ≤ f < 10 kHz 20mV - ≤ 200 mV 10 kHz ≤ f < 50 kHz 200 mV - ≤ 2 V 50 Hz ≤ f < 10 kHz 200 mV - ≤ 2 V 10 kHz ≤ f < 50 kHz 2 V - ≤ 20 V 50 Hz ≤ f < 10 kHz 2 V - ≤ 20 V 10 kHz ≤ f < 50 kHz 20 V - ≤ 200 V 50 Hz ≤ f < 10 kHz 20 V - ≤ 200 V 10 kHz ≤ f < 50 kHz 200 V - ≤ 1100 V 50 Hz ≤ f < 10 kHz	70 μV 80 μV 0,2 mV 0,25 mV 1,5 mV 2,0 mV 15 mV 20 mV 120 mV 200 mV 0,6 V	FLUKE-5101B
DC Current Measuring devices	1μA - ≤ 200 μA 200 μA - ≤ 2 mA 2 mA - ≤ 20 mA 20 mA - ≤ 200 mA 200 mA - ≤ 2 A	0,1 μA 1,0 μA 5,0 μA 60 μA 2,5 mA	FLUKE-5101B
AC Current Measuring devices	1μA - ≤ 200 μA 50 Hz ≤ f < 1 kHz 200 μA - ≤ 2 mA 50 Hz ≤ f < 1 kHz 2 mA - ≤ 20 mA 50 Hz ≤ f < 1 kHz 20 mA - ≤ 200 mA 50 Hz ≤ f < 1 kHz 200 mA - ≤ 2 A 50 Hz ≤ f < 1 kHz	0,3 μA 2,0 μA 25 μA 0,2 mA 2,5 mA	FLUKE-5101B



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CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY ¹ (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT
DC Resistance Measuring devices	1 Ω 10 Ω 100 Ω 1 KΩ 10 KΩ 100 KΩ 1 MΩ 10 MΩ	1 mΩ 6 mΩ 60 mΩ 0,6 Ω 6,0 Ω 60 Ω 0,6 kΩ 7 kΩ	FLUKE-5101B



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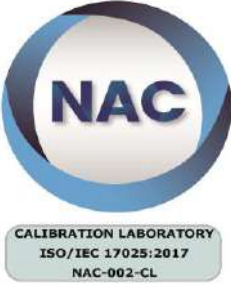
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Certification Sectors			
CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY ¹ (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT
Load Cell	$0\text{ N} \leq F \leq 2000\text{ kN}$	0,25 %	TS EN ISO 7500-1 ASTM E4
Luxmeter	1 lux to 5000 lux	2,00%	reference luxmeter light box
Anemometer	$0 < v \leq 3\text{ m/s}$ $3 < v \leq 5\text{ m/s}$ $5 < v \leq 20\text{ m/s}$	2,35 % 1,4 % 1,2 %	Reference Calibrator
Hardness Tester	24 HRC to 64 HRC	1%	Reference Block
Sound Level Meter	94 dB at 1 kHz 114 dB at 1 kHz	0,27 dB	Reference Calibrator



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Accreditation Area	General requirements for the competence of testing and calibration laboratories
Accreditation Standard	ISO/IEC 17025:2017

Certification Sectors			
CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY¹ (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT
F1 Mass	1 mg	0,01 mg	E2 MASS
	2 mg	0,01 mg	
	5 mg	0,01 mg	
	10 mg	0,01 mg	
	20 mg	0,01 mg	
	50 mg	0,01 mg	
	100 mg	0,01 mg	
	200 mg	0,01 mg	
	500 mg	0,01 mg	
	1 g	0,02 mg	
	2 g	0,02 mg	
	5 g	0,02 mg	
	10 g	0,03 mg	
	20 g	0,04 mg	
	50 g	0,05 mg	
	100 g	0,10 mg	
	200 g	0,15 mg	
	500 g	0,71 mg	
	1000 g	2,29 mg	
	2000 g	8,30 mg	
	5000 g	12,95 mg	



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	TELEPHONE	+905060350806
	ACCREDITATION DATE (Rev.01)	31.08.2023
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Accreditation Area	General requirements for the competence of testing and calibration laboratories
Accreditation Standard	ISO/IEC 17025:2017

Certification Sectors			
CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY1 (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT
F2 Mass	1 mg	0,01 mg	E2-F1 MASS
	2 mg	0,01 mg	
	5 mg	0,07 mg	
	10 mg	0,07 mg	
	20 mg	0,02 mg	
	50 mg	0,02 mg	
	100 mg	0,02 mg	
	200 mg	0,03 mg	
	500 mg	0,03 mg	
	1 g	0,04 mg	
	2 g	0,07mg	
	5 g	0,07 mg	
	10 g	0,09 mg	
	20 g	0,11 mg	
	50 g	0,13 mg	
	100 g	0,23 mg	
	200 g	0,44 mg	
	500 g	1,30 mg	
	1000 g	2,28 mg	
	2000 g	8,30 mg	
	5000 g	12,95 mg	
	10000 g	73,96 mg	
	20000 g	82,96 mg	
	50000 g	410,83 mg	



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Certification Sectors				
CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY¹ (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT	
M1 Mass	1 mg to 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 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg 50 kg	0.03 mg 0.03 mg 0.04 mg 0.05 mg 0.09 mg 0.08 mg 0.1 mg 0.12 mg 0.16 mg 0.20 mg 0.24 mg 0.32 mg 0.4 mg 0.63 mg 1.20 mg 3.20 mg 6.30 mg 13.70 mg 32 mg 94.40 mg 136.90 mg 410.90 g	E2 MASS	

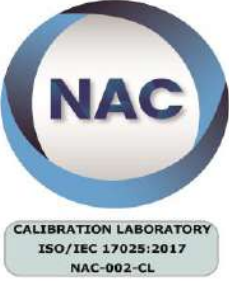
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M2 Mass	100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg	0,20 mg 0,23 mg 0,31 mg 0,40 mg 0,47 mg 0,62 mg 0,77 mg 1,0 mg 1,20 mg 1,93 mg 3,86 mg 9,67 mg 19,29 mg 39,20 mg 96,62 mg 205,28 mg 391,86 mg	E2-F1 MASS	

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CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY ¹ (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT
Balloon Joja	5 ml	0,22 µl	Balance. Distilled Water
	10 ml	0,23 µl	
	25 ml	0,29 µl	
	50 ml	0,43 µl	
	100 ml	2,89 µl	
	200 ml	3,77 µl	
	250 ml	4,24 µl	
	500 ml	6,72 µl	
	1000 ml	25,26 µl	
	2000 ml	32,50 µl	
Pipette (Single Point)	0,5ml	0,21 µl	Balance. Distilled Water
	1 ml	0,21 µl	
	2 ml	0,21 µl	
	5 ml	0,22 µl	
	10 ml	0,23 µl	
	20 ml	0,27 µl	
	25 ml	0,29 µl	
	50 ml	0,43 µl	
	100 ml	2,89 µl	



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Scaled Cylinders	5 ml	0,22 µl	Balance. Distilled Water
	10 ml	0,23 µl	
	25 ml	0,29 µl	
	50 ml	0,43 µl	
	100 ml	2,89 µl	
	250 ml	4,24 µl	
	500 ml	6,72 µl	
	1000 ml	25,26 µl	
	2000 ml	32,50 µl	
	2000 mL to 10000 mL	3 ml	
	10000 mL to 20000 mL	4.1 ml	
	20000 mL to 30000 mL	5.1 ml	
	30000 mL to 40000 mL	6.7 ml	
	40000 mL to 50000 mL	7.5 ml	
Pipette (Scaled)	0,5ml	0,21 µl	Balance. Distilled Water
	1 ml	0,21 µl	
	2 ml	0,21 µl	
	5 ml	0,22 µl	
	10 ml	0,23 µl	
	25 ml	0,29 µl	



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Burette (Scaled)	0,5 ml 1 ml 2 ml 5 ml 10 ml 25 ml 50 ml 100 ml	0,21 µl 0,21 µl 0,21 µl 0,22 µl 0,23 µl 0,29 µl 0,34 µl 2,89 µl	Balance. Distilled Water
Pipette (Piston)	100 µl 200 µl 500 µl 1000 µl 2000 µl 5000 µl 10000 µl	0,21 µl 0,21 µl 0,21 µl 0,21 µl 0,21 µl 0,22 µl 0,23 µl	Balance. Distilled Water
Burette (Piston)	1 ml 2 ml 5 ml 10 ml 20 ml 25 ml 50 ml 100 ml	0,21 µl 0,21 µl 0,22 µl 0,23 µl 0,27 µl 3,28 µl 0,43 µl 2,39 µl	Balance. Distilled Water



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SCOPE OF ACCREDITATION

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 CALIBRATION LABORATORY ISO/IEC 17025:2017 NAC-002-CL	NAC ACCREDITATION NUMBER	NAC-002-CL
	COMPANY NAME	Tetamet Metroloji ve Kalibrasyon Merkezi
	ADDRESS	Bahçelievler Mah. Özden Sk. No: 2-2 İlkadım / SAMSUN
	CONTACT NAME	Alper GAZİOĞLU
	TELEPHONE	+905060350806
	ACCREDITATION DATE	07.07.2024
	ACCREDITATION STANDARD	ISO/IEC 17025:2017

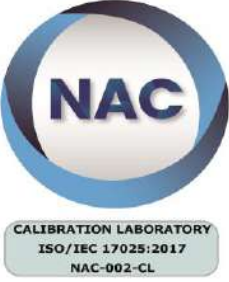
Accreditation Area		General requirements for the competence of testing and calibration laboratories	
Accreditation Standard		ISO/IEC 17025:2017	
Certification Sectors			
CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY ¹ (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT
Material Testing Machines Tensile direction, Compression direction, Tensile / Compression Bending, Test Machines, Force / Spring Force Measurement Systems	0-2000 kN	0,25%	TS EN ISO 7500-1 ASTM E4
Concrete Test Press	0-200 kN	0,25%	TS EN 12390-4
Force Measuring Devices Handheld Force Gauge, Dynamometer, Hand Scale, Crane Scale, Proving Ring Load Cell with Indicator.	0-200 kN	0,25%	DAKKS-DKD-R 3-3



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Accreditation Area		General requirements for the competence of testing and calibration laboratories	
Accreditation Standard		ISO/IEC 17025:2017	
Certification Sectors			
CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY ¹ (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT
Sieve	0-200 mm	12,0 μm	ISO 3310/1, ISO 3110/2, ISO 3110/3, ISO 5223, ISO 933-3
Torquemeter	0-1000 Nm	0,18%	Reference Torque Calibrator
Angle Meter	0° to 90°	0.27°	Angle Gauge
Feeler Gauge	0 mm to 6 mm	1,70 μm	Reference Micrometer



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	ACCREDITATION DATE	07.07.2024
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Accreditation Area		General requirements for the competence of testing and calibration laboratories	
Accreditation Standard		ISO/IEC 17025:2017	
Certification Sectors			
CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY1 (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT
Doppler	0-300 BPM	1,2%	Reference Calibrator
Flowmeter	0.1 – 20 l/min	1,60%	Reference Calibrator
Aspirator	0-760 mmhg	1,5 mmHg	Reference Calibrator
Defibrillator Analyzer - Test Load	1 Ω to 100 Ω	0,17 Ω	Reference Calibrator
Energy Measurement	1 J to 400 J	1,2 %	
Voltage Measurement	50 V to 5000 V	1,3 %	
Current Measurement	1 A to 100 A	25 mA	
ECG Rate	30 BPM to 300 BPM	1,2 %	
Performance Waves	1 Hz to 100 Hz	0,01 Hz	
SPO2 Simulator Test Load	0.1 kΩ to 100 kΩ	0,45 Ω	
Sphygmomanometer	0≤ P ≤ 300 mmHg	1,5 mmHg	Reference Calibrator
ECG Rate	30 BPM to 300 BPM	1,20%	Reference Calibrator



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Accreditation Area		General requirements for the competence of testing and calibration laboratories	
Accreditation Standard		ISO/IEC 17025:2017	
Certification Sectors			
CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY ¹ (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT
Odiometer	0-10000 Hz	0,01 Hz	Reference Calibrator
	0-100 dB	0,40 dB	Reference Calibrator
Lateral Slip Tester	0-10 mm	0,80%	Reference Calibrator
Suspension Tester	0-1 kN	0,80%	Reference Calibrator
	0-100 Hz	1,00%	Reference Calibrator
Motor Power Tester	0-200 kW	5,00%	Reference Calibrator
Pressure gauge	0-100 bar	0,90%	Reference Calibrator
Tire tread depth measuring device	0-10 mm	0,90%	Reference Calibrator
Brake Tester	0-10 kN	0,90%	Reference Calibrator
Thickness measuring device	0-1 mm	1,00%	Reference Calibrator
Battery tester	0-100 V	0,90%	Reference Calibrator
Color Meter and Color Plate	0 / 45 Geometrisi 0 ≤ x,y ≤ 1 0 ≤ L ≤ 100	% 0,17 % 1,7	Reference color plate and colormeter



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