



INTERNATIONAL
ACCREDITATION
SERVICE®

CERTIFICATE OF ACCREDITATION

This is to attest

FUGRO SUHAIMI CO LTD

BUILDING NO.124, NAJAH STREET ISHBILIYAH, DISTRICT RIYADH
ISBILIYA, SAUDI ARABIA 31451

Calibration Laboratory CL-302

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Expiration Date September 1, 2026

Effective Date August 29, 2025



International Accreditation Service

Issued under the authority of IAS management

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Accredited to ISO/IEC 17025:2017

Effective Date August 29, 2025

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Dimensional			
Calipers (All Types)	0 mm to 600 mm	14 µm	Direct Method using Gauge Block Set & Caliper Checker
Micrometers (Outside)	0 mm to 300 mm	11 µm	Direct Method using Gauge Block Set
Dial and Digital Indicators	0 mm to 25 mm	7 µm	Direct Method using Dial Gauge Calibrator
Meter Scale & Measuring Tape	0 mm to 1000 mm	59 µm	Comparison Method using Meter Tape and Scale Calibrator
Coating Thickness Gauge, Ferrous & Nonferrous	23.8 µm to 2774 µm	13 µm	Direct Method Using Thickness foils Specimens set
One Dimensional Length	0 mm to 300 mm 0 m to 1 m	34 µm 1.2 mm	Comparison Method Using Digital caliper & Measuring tape
Height Gauge	0 mm to 600 mm	25 µm	Direct Method Using Caliper Checker
Mechanical			
CBR Mold & Spacer – Dimensions Volume	Up to 200 mm Up to 3000 cm ³	0.18 mm 6.1 cm ³	Comparison Method Using Digital Caliper & Digital Balance
Compactor Marshall & Proctor– Height of Drop Weight Rammer Diameter	Up to 458 mm Up to 4.55 kg Up to 101 mm	1.6 mm 2.7 g 0.09 mm	Comparison Method Using Digital Caliper, Digital Balance & Measuring Tape
Conical Mold & Tamper – Dimensions Weight	Up to 90 mm Up to 340 g	0.11 mm 0.45 g	Comparison Method Using Digital Caliper & Digital Balance

* If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 "Guide for the Use of the International System of Units (SI)" apply.



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Flakiness & Elongation Gauge – Openings	Up to 63 mm	0.03 mm	Comparison Method Using Digital Caliper
LA Abrasion Machine – Inside Diameter Inside Length Average Dia. Of Charge Average Mass of Charge Rotation Per Minute	Up to 711 mm Up to 508 mm Up to 47 mm Up to 455 g 10 rpm to 33 rpm	0.75 mm 0.75 mm 0.03 mm 0.58 g 0.17 %	Comparison Method Using Digital Caliper, Digital Balance, Measuring Tape & Tachometer
Liquid Limit Device and Grover – Dimensions Weight of Cup + Hanger	Up to 150 mm Up to 215 g	0.05 mm 0.51 g	Comparison Method Using Digital Caliper, Digital Balance & Gauge Block Set
Molds Cylinder – Height Diameter	Up to 303 mm Up to 153 mm	0.13 mm 0.13 mm	Comparison Method Using Digital Caliper & Measuring Tape
Molds Marshall – Dimensions	Up to 100 mm	0.11 mm	Comparison Method Using Digital Caliper
Molds Mortar Cubes – Dimensions	Up to 50 mm	0.11 mm	Comparison Method Using Digital Caliper
Molds Proctor – Volume Dimensions	Up to 3000 ml Up to 154 mm	3.4 cm ³ 0.11 mm	Comparison Method Using Digital Caliper, Digital Balance & Digital Thermometer
Pycnometer and Unit Weight Mold – Volume	Up to 4000 ml	5.8 cm ³	Comparison Method Using Digital Caliper, Digital Balance & Digital Thermometer
Graduated Cylinder – Volume	Up to 2000 ml	1.1 cm ³	Comparison Method Using Digital Balance & Digital Thermometer
Slump Cone & Tamping Rod– Cone Diameter Cone Height Cone Thickness Rod Diameter Rod Length	Up to 203 mm Up to 303 mm Up to 3 mm Up to 16 mm Up to 600 mm	0.03 mm 0.03 mm 0.03 mm 0.03 mm 0.04 mm	Comparison Method Using Digital Caliper & Measuring Tape
Concrete Air Meter (Pressure Method)	Up to 10 % of air in concrete	0.20 %	Comparison Method Using Digital Balance & Digital Thermometer
Sieve	(2 to 100) mm	0.14 mm	Comparison Method Using Digital Caliper

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Force – Compression	Up to 5000 kgf	0.74 %	Comparison Method Using S Beam Load Cell & Digital Indicator
Universal Testing Machine	Up to 2000 kN	1.4 %	Comparison Method Using Load Cell & Digital Indicator
Torque Wrenches and Drivers	(Up to 1000) N.m (Up to 2000) N.m	1.3 % 0.78 %	Comparison Method Using Torque Tester
Mass Scales & Balances	(1 to 10) g 20 g (50 to 200) g (500 to 1000) g 2000 g (5 to 20) kg 30 kg (20 to 200) kg (220 to 400) kg (420 to 900) kg	0.70 mg 0.95 mg 3.4 mg 18 mg 42 mg 42 g 42 g 42 g 0.12 kg 0.37 kg	Direct Method Using Class F2 weights Direct Method Using Class M2 weights
Asphalt and Concrete Batch Plants	(20 to 200) kg (220 to 400) kg (420 to 900) kg	40 g 0.6 kg 0.37 kg	Direct Method Using Standard Weight Sets Class M2
Pressure – Measuring Equipment, Hydraulic	Up to 500 psi 500 to 5000 psi Up to 500 psi Up to 10 000 psi	0.30 % 0.60 % 0.54 % 0.72 %	Comparison Method Using Digital Test Gauge
Vacuum – Measuring Equipment	(-0.8 to 0) bar	5.2 mbar	Comparison Method Using Digital Test Gauge
Rotational Speed – Measure Contact	500 rpm to 3500 rpm (Contact)	5 rpm (Contact)	Comparison Method Using Digital Tachometer
Photo	10 rpm to 90,000 rpm (Photo)	0.17 % (Photo)	
Rotational Speed – Measuring Equipment ³ Photo	10 rpm to 90,000 rpm (Photo)	0.32 % (Photo)	Comparison Method Using Multifunction Calibrator
Thermal			
Temperature – Measuring	(-30 to 140) °C (5 to 45) °C (69 to 388) °C	0.31 °C 0.47 °C 0.61 °C	Comparison Method Using Dry Block Calibrator
Temperature – Measure (Direct Verification) ³	(5 to 45) °C (-20 to 260) °C (260 to 900) °C (900 to 1100) °C	0.4 °C 2.6 °C 8.1 °C 10 °C	Comparison Method Using Thermometer & Humidity Generator

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Humidity – Measuring Equipment ³	(10 to 80) %RH (10 to 90) %RH	3.2 %RH 2.4 %RH	Comparison Method Using Humidity Generator & Thermo-Hygrometer
Electrical – DC/LF			
DC Voltage – Measure ⁴	Up to 100 mV (0.11 to 1) V (1.1 to 10) V (10.1 to 100) V (101 to 1000) V	0.0058 % + 11 µV 0.0046 % + 95 µV 0.0040 % + 3.4 mV 0.005 % + 7.6 mV 0.005 % + 0.36 V	Direct Method Using Digital Precision Multimeter
DC Voltage – Generate ³	(0 to 329.9999) mV (0.33 to 3.299 999) V (3.3 to 32.999 99) V (30 to 329.9999) V (100 to 1020) V	0.0069 % + 3.8 µV 0.0057 % + 15 µV 0.0057 % + 230 µV 0.0063 % + 2.2 mV 0.0063 % + 6.0 mV	Direct Method Using Multifunctional Calibrator
DC Current – Measure ⁴	Up to 10 mA (10 to 100) mA (100 to 400) mA (0.4 to 1) A (1 to 3) A (3 to 10) A	0.06 % + 2.9 µA 0.06 % + 20 µA 0.06 % + 0.18 mA 0.06 % + 0.56 mA 0.12 % + 1.6 mA 0.17 % + 8.0 mA	Direct Method Using Digital Precision Multimeter
DC Current – Generate ³	(0 to 329.999) µA (0.33 to 3.299 99) mA (3.3 to 32.9999) mA (33 to 329.999) mA (0.33 to 1.099 99) A (1.1 to 2.999 99) A (0 to 10.9999) A (11 to 20.5) A	0.017 % + 0.023 µA 0.011 % + 0.063 µA 0.011 % + 0.38 µA 0.012 % + 3.9 µA 0.044 % + 56 µA 0.044 % + 70 µA 0.069 % + 0.8 mA 0.12 % + 2.0 mA	Direct Method Using Multifunction Calibrator
Clamp Meters	(10 to 200) A (200 to 1000) A	0.80 A 4.0 A	Direct Method Using Current Coil
DC Resistance – Generate ³	(0 to 10.999) Ω (11 to 32.999) Ω (33 to 109.999) Ω (110 to 329.999) Ω (0.33 to 1.099 99) kΩ (1.1 to 3.299 99) kΩ (3.3 to 10.9999) kΩ (11 to 32.9999) kΩ (33 to 109.999) kΩ (110 to 329.999) kΩ (0.33 to 1.099 99) MΩ (1.1 to 3.299 99) MΩ (3.3 to 10.9999) MΩ	0.014 % + 12 mΩ 0.014 % + 17 mΩ 0.01 % + 17 mΩ 0.01 % + 23 mΩ 0.01 % + 27 mΩ 0.01 % + 0.23 Ω 0.01 % + 0.28 Ω 0.01 % + 1.2 Ω 0.013 % + 1.6 Ω 0.014 % + 12 Ω 0.017 % + 21 Ω 0.018 % + 270 Ω 0.069 % + 1.1 kΩ	Direct Method Using Multifunction Calibrator

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DC Resistance – Generate ³	(11 to 32.9999) MΩ (33 to 109.999) MΩ (110 to 329.999) MΩ (330 to 1100.00) MΩ (0.1 to 1) MΩ (1 to 10) MΩ (100 to 1000) MΩ (1 to 6) GΩ (10 to 100) GΩ (100 to 1000) GΩ	0.12 % + 11 kΩ 0.58 % + 170 kΩ 0.58 % + 1.2 MΩ 1.7 % + 2.3 MΩ 2.3 % + 83 Ω 2.3 % + 8.6 kΩ 2.3 % + 0.53 MΩ 2.3 % + 0.17 GΩ 5.8 % + 0.10 GΩ 5.8 % + 1.0 GΩ	Direct Method Using Multifunction Calibrator
DC Resistance – Measure ⁴	Up to 100 Ω (0.1 to 1) kΩ (1 to 10) kΩ (10 to 100) kΩ (0.1 to 1) MΩ (1 to 10) MΩ (10 to 100) MΩ	0.01 % + 18 Ω 0.01 % + 0.43 Ω 0.01 % + 1.3 Ω 0.01 % + 15 Ω 0.01 % + 0.39 kΩ 0.05 % + 1.1 kΩ 0.92 % + 0.59 MΩ	Direct Method Using Digital Precision Multimeter
AC Voltage –Measure ⁴	(Up to 1.00) V 20 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (1.1 to 10.000) V 10 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (11.1 to 100.00) V (20 to 50) kHz (50 to 100) kHz (101 to 750) V (50 to 60) Hz	0.069 % + 1.8 mV 0.14 % + 2.5 mV 0.69 % + 3.2 mV 4.6 % + 9.4 mV 0.069 % + 12 mV 0.14 % + 15 mV 0.69 % + 32 mV 0.14 % + 0.19 V 0.69 % + 0.39 0.069 % + 0.52 V	Direct Method Using Digital Precision Multimeter

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AC Voltage – Generate ³	(1 to 32.999) mV		Direct Method Using Multifunction Calibrator
	(10 to 45) Hz	0.17 % + 24 µV	
	45 Hz to 10 kHz	0.12 % + 24 µV	
	(10 to 20) kHz	0.17 % + 24 µV	
	(20 to 50) kHz	0.23 % + 24 µV	
	(50 to 100) kHz	0.40 % + 39 µV	
	(100 to 500) kHz	1.2 % + 72 µV	
	(33.000 to 329.99) mV		
	(10 to 45) Hz	0.058 % + 49 µV	
	45 Hz to 10 kHz	0.035 % + 25 µV	
	(10 to 20) kHz	0.081 % + 25 µV	
	(20 to 50) kHz	0.12 % + 48 µV	
	(50 to 100) kHz	0.27 % + 200 µV	
	(100 to 500) kHz	0.58 % + 390 µV	
	(0.33 to 3.299 99) V		
	(10 to 45) Hz	0.058 % + 90 µV	
	45 Hz to 10 kHz	0.035 % + 90 µV	
	(10 to 20) kHz	0.081 % + 90 µV	
	(20 to 50) kHz	0.12 % + 120 µV	
	(50 to 100) kHz	0.27 % + 280 µV	
	(100 to 450) kHz	0.58 % + 1.2 mV	
	(3.3 to 32.9999) V		
	(10 to 45) Hz	0.058 % + 4.1 mV	
	45 Hz to 10 kHz	0.035 % + 1.0 mV	
	(10 to 20) kHz	0.081 % + 1.0 mV	
	(20 to 50) kHz	0.12 % + 1.3 mV	
	(50 to 90) kHz	0.27 % + 3.0 mV	
	(33 to 329.999) V		
	45 Hz to 1 kHz	0.058 % + 9 mV	
	(1 to 10) kHz	0.092 % + 13 mV	
	(10 to 18) kHz	0.10 % + 13 mV	
	(20 to 50) kHz	0.14 % + 40 mV	
	(50 to 100) kHz	0.28 % + 100 mV	
	(330 to 1020) V		
	45 Hz to 1 kHz	0.059 % + 38 mV	
	(1 to 5) kHz	0.093 % + 38 mV	
	(5 to 8) kHz	0.11 % + 38 mV	
AC Current – Generate ³	(29 to 329.99) µA		Direct Method Using Multifunction Calibrator
	(10 to 20) Hz	0.23 % + 0.12 µA	
	(0 to 45) Hz	0.17 % + 0.12 µA	
	45 Hz to 1 kHz	0.14 % + 0.12 µA	
	(1 to 5) kHz	0.35 % + 0.12 µA	



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	(5 to 10) kHz (10 to 30) kHz	0.92 % + 0.23 µA 1.8 % + 0.43 µA	
	(0.33 to 3.29999) mA (10 to 20) Hz (0 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.23 % + 0.41 µA 0.14 % + 0.43 µA 0.11 % + 0.43 µA 0.23 % + 0.45 µA 0.57 % + 0.52 µA 1.2 % + 0.81 µA	
	(3.3 to 32.9999) mA (10 to 20) Hz (0 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.20 % + 4.9 µA 0.10 % + 4.9 µA 0.05 % + 4.9 µA 0.10 % + 4.9 µA 0.23 % + 5.5 µA 0.46 % + 6.5 µA	
	(33 to 329.999) mA (10 to 20) Hz (0 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.20 % + 74 µA 0.10 % + 74 µA 0.04 % + 57 µA 0.12 % + 91 µA 0.23 % + 140 µA 0.46 % + 240 µA	
	(0.33 to 1.099 99) A (10 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.20 % + 1.2 mA 0.06 % + 1.2 mA 0.70 % + 2.0 mA 2.9 % + 6.0 mA	
	(1.1 to 2.999 99) A (10 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.20 % + 12 mA 0.06 % + 12 mA 0.70 % + 12 mA 2.9 % + 14 mA	
	(3 to 10.9999) A (45 to 100) Hz 100 Hz to 1 kHz (1 to 5 kHz)	0.06 % + 120 mA 0.06 % + 120 mA 3.5 % + 120 mA	Direct Method Using Multifunction Calibrator
	(11 to 20.5) A (45 to 100) Hz 100 Hz to 1 kHz (1 to 5 kHz)	0.13 % + 120 mA 0.17 % + 120 mA 3.5 % + 120 mA	

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AC Current – Generate ³ (continued) Clamp meters (all types)	@60 Hz Up to 200 A (200 to 1000) A	 1.2 % + 0.29 A 1.2 % + 1.0 A	Direct Method Using Multifunction Calibrator with current coil
AC Current – Measure ⁴	Up to 10 mA 10 Hz to 5 kHz (5 to 10) kHz (10 to 100) mA 10 Hz to 5 kHz (5 to 10) kHz (100 to 400) mA 10 Hz to 1 kHz (1 to 10) kHz (0.4 to 1) mA 10 Hz to 5 kHz (1 to 3) A 60 Hz to 5 kHz (3 to 10) A 60 Hz to 5 kHz	 0.17 % + 6.9 µA 0.40 % + 0.08 mA 0.12 % + 52 µA 0.23 % + 0.29 mA 0.23 % + 3.2 mA 0.23 % + 3.8 mA 0.12 % + 8.2 mA 0.17 % + 33 mA 0.17 % + 0.47 A	Comparison Method Using Digital Precision Multimeter
Welding machines	(20 to 80) V (20 to 80) V @50 Hz (50 to 600) A (50 to 600) A @50 Hz	0.33 V 0.34 V 2.1 A 2.3 A	Comparison Method Using Welding Machine Calibrator
Electrical Simulation of Thermocouple Devices – Type B Type C	 (600 to 800) °C (800 to 1000) °C (1000 to 1550) °C (1550 to 1820) °C (0 to 150) °C (150 to 650) °C (650 to 1000) °C (1000 to 1800) °C (1800 to 2316) °C	 0.68 °C 0.61 °C 0.59 °C 0.59 °C 0.42 °C 0.38 °C 0.54 °C 0.66 °C 1.10 °C	Direct Method Using Multifunction Calibrator

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Electrical Simulation of Thermocouple Devices – (continued)			Direct Method Using Multifunction Calibrator
Type E	(-250 to -100) °C (-100 to -25) °C (-25 to 350) °C (350 to 650) °C (650 to 1000) °C	0.68 °C 0.78 °C 0.55 °C 0.58 °C 0.59 °C	
Type J	(-210 to -100) °C (-100 to -30) °C (-30 to 150) °C (150 to 760) °C (760 to 1200) °C	0.56 °C 0.51 °C 0.83 °C 0.54 °C 0.64 °C	
Type K	(-200 to -100) °C (-100 to -25) °C (-25 to 120) °C (120 to 1000) °C (1000 to 1372) °C	0.64 °C 0.58 °C 0.53 °C 1.10 °C 0.68 °C	
Type N	(-200 to -100) °C (-100 to -25) °C (-25 to 120) °C (120 to 420) °C (420 to 1300) °C	0.68 °C 0.59 °C 0.58 °C 0.58 °C 0.62 °C	
Type R	(0 to 250) °C (250 to 400) °C (400 to 1000) °C (1000 to 1767) °C	0.75 °C 0.60 °C 0.59 °C 0.63 °C	
Type S	(0 to 250) °C (250 to 1000) °C (1000 to 1400) °C (1400 to 1767) °C	0.69 °C 0.64 °C 0.67 °C 0.72 °C	
Type T	(-250 to -150) °C (-150 to 0) °C (0 to 120) °C (120 to 400) °C	0.84 °C 0.60 °C 0.58 °C 0.57 °C	
Type U	(-200 to 0) °C (0 to 600) °C	0.71 °C 0.51 °C	

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Electrical Simulation of RTD Devices –			Direct Method Using Multifunction Calibrator
Pt 385, 100 Ω	(-200 to -80) °C (-80 to 0) °C (0 to 100) °C (100 to 300) °C (300 to 400) °C (400 to 630) °C (630 to 800) °C	0.18 °C 0.19 °C 0.19 °C 0.19 °C 0.19 °C 0.22 °C 0.22 °C	
Pt 3926, 100 Ω	(-200 to -80) °C (-80 to 0) °C (0 to 100) °C (100 to 300) °C (300 to 400) °C (400 to 630) °C	0.18 °C 0.17 °C 0.18 °C 0.19 °C 0.19 °C 0.21 °C	
Pt 3916, 100 Ω	(-200 to -190) °C (-190 to -80) °C (-80 to 0) °C (0 to 100) °C (100 to 260) °C (260 to 300) °C (300 to 400) °C (400 to 600) °C (600 to 630) °C	0.30 °C 0.17 °C 0.17 °C 0.18 °C 0.18 °C 0.18 °C 0.19 °C 0.19 °C 0.28 °C	
Pt 385, 200 Ω	(-200 to -80) °C (-80 to 0) °C (0 to 100) °C (100 to 260) °C (260 to 300) °C (300 to 400) °C (400 to 600) °C (600 to 630) °C	0.17 °C 0.17 °C 0.17 °C 0.17 °C 0.21 °C 0.21 °C 0.22 °C 0.23 °C	
Pt 3850, 500 Ω	(-200 to -80) °C (-80 to 0) °C (0 to 100) °C (100 to 260) °C (260 to 300) °C (300 to 400) °C (400 to 600) °C (600 to 630) °C	0.18 °C 0.17 °C 0.17 °C 0.18 °C 0.18 °C 0.18 °C 0.19 °C 0.20 °C	
Pt 385, 1000 Ω	(-200 to -80) °C (-80 to 0) °C	0.17 °C 0.17 °C	

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	(0 to 100) °C (100 to 260) °C (260 to 300) °C (300 to 400) °C (400 to 600) °C (600 to 630) °C	0.17 °C 0.17 °C 0.18 °C 0.18 °C 0.18 °C 0.28 °C	
Chemical			
pH Measuring Device	pH 4 pH 7 pH 10	0.023 pH 0.027 pH 0.082 pH	Direct Method Using Standard buffer solution
Conductivity Measuring Device	(447.6 to 500.1) µS/cm (1283 to 1420) µS/cm	3.2 µS/cm 5.6 µS/cm	Direct Method Using Conductivity standard solution within range of (20 to 25) °C
TDS Meters	500 mg/l	2.2 mg/l	Direct Method Using Reference solutions

¹The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing calibrations of a best existing device. The measurement uncertainty reported on a calibration certificate may be greater than that provided in the CMC due to the behavior of the calibration item and other factors that may contribute to the uncertainty of a specific calibration.

²When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.

³Capability is suitable for the calibration of measuring devices in the stated ranges.

⁴Capability is suitable for the calibration of devices intended to generate the indicated quantity in the stated ranges.