



INTERNATIONAL
ACCREDITATION
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CERTIFICATE OF ACCREDITATION

This is to attest

AL KAABI FOR TECHNOLOGY SUPPORT

P.O. BOX 4875
EASTERN PROVINCE 31412, SAUDI ARABIA

Calibration Laboratory CL-162

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 February 1, 2026

Effective Date December 4, 2025



International Accreditation Service

Issued under the authority of IAS management

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 101, Brea, California 92821, U.S.A. | www.iasonline.org

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Accredited to ISO/IEC 17025:2017

Effective Date December 4, 2025

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Dimensional			
Dial Gauge / Dial Indicators (Plunger Type)	0 mm to 25 mm	6 µm	Dial Gauge Calibrator by Direct method (JIS B7503 & BS 907)
Calipers	0 mm to 300 mm	18 µm	Gauge Blocks Grade 0 by Direct method (ASME B89.1.14)
Sieves (Fine / Coarse)	300 µm to 1.7 mm 2.3 mm to 25 mm 25 mm to 125 mm	8.2 µm 18 µm 46 µm	Digital Caliper by Direct method (ASTM E11)
Mechanical			
Scales and Balances	10 mg to 100 mg	0.2 mg	Class E2 Weights by Direct method (ASTM E898)
	100 mg to 720 g	8.0 mg	
	720 g to 6 kg	25 mg	
	6 kg to 16 kg	52 mg	
	16 kg to 36 kg	90 mg	Class F1 Weights by Direct method (ASTM E898)
	36 kg to 1000 kg	0.8 kg	Class M1 Weights by Direct method (ASTM E898)
Pressure Hydraulic (Pressure Gauge / Pressure Transducer)	1 bar to 200 bar 200 bar to 400 bar 400 bar to 800 bar 800 bar to 1000 bar	0.11 bar 0.19 bar 0.29 bar 0.44 bar	Dead Weight Tester by Direct method (BS/EN 837-1)
Vacuum Gauge	-0.95 bar to 0 bar	14 mbar	Test Pump/ Digital Master Gauge by Comparison Method (BS/EN 837-1)

* 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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MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Mass (Standard Weights) Class M1, M2 & M3	20 kg 10 kg 5 kg 2 kg 1 kg	130 mg 65 mg 25 mg 27 mg 11 mg	Precision balance / Class E2 standard weights by ABBA Method (OIML R111)
Batch Plants	0 kg to 1000 kg 1001 kg to 2000 kg 2001 kg to 3000 kg 3001 kg to 4000 kg 4001 kg to 5000 kg 5001 kg to 6000 kg 6001 kg to 7000 kg 7001 kg to 8000 kg 8001 kg to 9000 kg 9001 kg to 10000 kg	0.8 kg 1.8 kg 2.8 kg 4.0 kg 5.3 kg 6.7 kg 8.2 kg 9.9 kg 12 kg 14 kg	Class M1 Weights by Direct method as per the requirements of ASTM Standard C94/94M and Handbook 44 – 2019, Section 2.22. Automatic Bulk Weighing Systems Clause N.1.1.2
Gyratory Compactor Force Height Angle	 0.25 kN to 25 kN 114.36 mm 1.36°	 0.23 % 17 µm 0.005°	Digital Dynamometer Height Standard Dynamic Angle Validator (DAV) Model: II HMS by Direct method (ASHTO T312 & (ASTM D6925)
Rotational Speed	10 rpm to 100 rpm 100 rpm to 1000 rpm 1000 rpm to 3000 rpm 3000 rpm to 28800 rpm	1.0 rpm 1.4 rpm 4.5 rpm 15 rpm	Photo Tachometer by Direct Method
UTM / Compression Testing Machine (Compression)	0.1 kN to 10 kN 10 kN to 5000 kN	0.36 % 0.13 %	Using load Cell by direct method (BS/EN/ISO 7500)
UTM / Tensile Testing Machine (Tension)	0.1 kN to 10 kN 10 kN to 100 kN 100 kN to 750 kN 750 kN to 1000 kN	0.4 % 0.25 % 0.23 % 0.1 %	Using load Cell by direct method (BS/EN/ISO 7500)
Load Cell (Compression)	0 kN to 500 kN 501 kN to 1500 kN 1501 kN to 5000 kN	0.15 % 0.14 % 0.13 %	Master Load Cell and Master Digital Indicator (ISO 376:2011)
Viscometer	4000 cP to 10000 cP	130 cP	Certified Viscosity Standard by Direct Method (ASTM D2196 & AASHTO T316)



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Nuclear Density Gage	569.34 kg/m ³	7.1 %	Mg/Polyethylene Standard Moisture Block by Direct Method (ASTM D6938 & ASTM D7759)	
	1784.82 kg/m ³	0.44 %	Magnesium Standard Block by Direct Method (ASTM D6938 & ASTM D7759)	
	2191.75 kg/m ³	0.46 %	Mg/Al Standard Block by Direct Method (ASTM D6938 & ASTM D7759)	
	2732.53 kg/m ³	0.16 %	Aluminum Standard Block by Direct Method (ASTM D6938 & ASTM D7759)	
Dynamic Shear Rheometer (DSR)	133,800 mPa·s to 621,800 mPa·s	1400 mPa·s	Reference Certified Silicon Fluid by Direct Method (ASTM D7175)	
Thermal				
Thermometers – Digital	0 °C to 160 °C	0.16 °C	SIKA TPM 165S-U Multifunction Calibrator by Direct Method	
	Dial Type	0 °C to 160 °C	1.2 °C	ASTM E2877-12
	Infrared	0 °C to 160 °C	2 °C	ASTM E2847
Ovens and Furnaces	20 °C to 160 °C	0.6 °C	Thermocouple Type K and Multifunction Simulator by Direct Method ASTM E2877-12 & ASTM E145.	
	160 °C to 800 °C	1.1 °C		
Chemical/Gas				
pH Meter (Discrete Values)	4 pH 7 pH 10 pH	0.08 pH 0.08 pH 0.08 pH	Certified Buffer Solutions Direct Method	
TDS Meter Conductivity Meter	1000 ppm 2000 ppm 1417 µS/cm	1.1 ppm 12 ppm 14 µS/cm	Conductivity/TDS Solutions by Direct Method	

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



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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.

ppm = parts per million

