



ACCREDITATION CERTIFICATE

LB-CAL-082

Emirates International Accreditation Centre

has accredited

GEO-CHEM MIDDLE EAST

Plot No: TP/010305, National Industries Park, Jebel Ali

Dubai -United Arab Emirates

In accordance with the requirements of

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

to undertake the calibration in the attached accreditation scope

This Accreditation is invalid without the attached accreditation scope and shall remain in force within the validity period printed below, subject to continuing compliance with the requirements of the accreditation criteria.

Validity: 11-02-2021 to 16-02-2023

Initial Accreditation Date: 17-02-2020




CHIEF EXECUTIVE OFFICER
APPROVAL



Accreditation Scope

LB-CAL-082

Geo-Chem Middle East

Plot No: TP/010305, National Industries Park, Jebel Ali

Dubai-United Arab Emirates

Date: 11-02-2021

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| Accreditation History | | | |
|-----------------------|-----------|---|-----------|
| Scope | Issue No. | Details | Date |
| Temperature | 2 | Re-issued to comply with the new accreditation number format | 2/11/2021 |
| Mass | | | |
| Dimensional | | | |
| Pressure | | | |
| Temperature | 1 | Granted accreditation from Emirates International Accreditation Centre EIAC | 2/17/2020 |
| Mass | | | |
| Dimensional | | | |
| Pressure | | | |

Accreditation Scope
Temperature Calibration
LB-CAL-082

Geo-Chem Middle East

Plot No: TP/010305, National Industries Park, Jebel Ali

Dubai-United Arab Emirates

Issue no.: 02

Date: 11-02-2021

Valid to: 16-02-2023

| Calibration Field/ Measuring Quality | Calibration Method | Range and Specification | Calibration Measurement Capability (CMC)* | Location |
|--|---|----------------------------|--|-------------------------------------|
| Digital thermometers with a resistance sensor | In house method GC I&C-WI-010, based on DKD-R 5-1 | 1 °C to 250 °C | 0.3 °C | Laboratory |
| Digital thermometers with a thermocouple sensor | In house method GC I&C-WI-010, based on DKD-R 5-1 | 1 °C to 80 °C | 0.4 °C | Laboratory |
| | In house method GC I&C-WI-010 | 80 °C to 140 °C | 0.6 °C | |
| | In house method GC I&C-WI-010, based on DKD-R 5-1 | 140 °C to 250 °C | 0.8 °C | |
| Temperature controlled chambers (Chillers, Freezers, Incubators, Ovens) | In house method GC I&C-WI-013, based on DKD-R 5-7 | -30 °C to 100 °C | 0.6 °C | Laboratory/ Customer Premises |
| Temperature liquid baths | In house method GC I&C-WI-013, based on DKD-R 5-7 | 25 °C to 100 °C | 0.3 °C | Laboratory/ Customer Premises |

* Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

Accreditation Scope

Mass Calibration

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| Calibration Field/ Measuring Quality | Calibration Method | Range and Specification | Calibration Measurement Capability (CMC)* | Location |
|---|--------------------|---|--|----------------------|
| Weighing Balance | Euramet cg-18 | $0 \leq m \leq 200 \text{ g}$ | 0.0021 g | Customer Premises |
| | | $200 \text{ g} < m \leq 30 \text{ kg}$ | 1.3 g | |
| | | $30 \text{ kg} < m \leq 200 \text{ kg}$ | 0.13 kg | |

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Accreditation Scope
Dimensional Calibration
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| Calibration Field/ Measuring Quality | Calibration Method | Range and Specification | Calibration Measurement Capability (CMC)* | Location |
|---|--|----------------------------|--|------------|
| Calibration Steel Rules | Scale & Tap WI 008 based on IS 1269 Part I & II, IS 1481 | Up to 1000 | 0.6 mm | Laboratory |
| | | Up to 1 m | 0.6 mm | |
| Steel Tapes | | >1 m Up to 5 m | 0.6 mm | |

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Accreditation Scope

Pressure Calibration

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| Calibration Field/ Measuring Quality | Calibration Method | Range and Specification | Calibration Measurement Capability (CMC)* | Location |
|---|--------------------|----------------------------|--|-------------------------------------|
| Pneumatic Pressure Gauge | DKD R-6-1 | -100 kPa to 100 kPa | 0.05% of Full Scale | Laboratory/ Customer Premises |
| | | 100 kPa to 4 MPa | 0.05% of Full Scale | |
| Hydraulic Pressure Gauge | DKD R-6-1 | 50 kPa to 7 MPa | 0.02% of Full Scale | Laboratory |
| | | 1 MPa to 140 Mpa | 0.02% of Full Scale | |

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