



# ACCREDITATION CERTIFICATE

**LB-TEST-133**

**Emirates International Accreditation Centre**

has accredited

**EMIRATES GLOBAL ALUMINIUM (EGA) LABORATORIES**

Al Taweelah | KIZAD | Abu Dhabi | 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 tests 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: 12-02-2025 to 27-01-2028

Initial Accreditation Date: 28-01-2016



*Amina Ahmed Mohammed*  
CHIEF EXECUTIVE OFFICER



## Accreditation Scope

### LB-TEST-133

## Emirates Global Aluminium (EGA) Laboratories

## Al Taweelah | KIZAD | Abu Dhabi | United Arab Emirates

Date: 12-02-2025

Accreditation History		
Issue no.	Details	Date

### Metallurgical Testing

07	Reissued due to accreditation renewal with modifications in Test Material and Test Method	12-02-2025
06	Certificate validity was extended for 6 months from 28-01-2025 up to 27-07-2025	28-01-2025
05	Renewal the accreditation	20-07-2022
04	Certificate validity was extended for 6 months from 28-01-2022 up to 27-07-2022	28-01-2022
03	Reduction in scope, renewal of the certificate and first issuance under the name of EIAC (which formally was known as DAC)	13-03-2019

## Accreditation Scope

**LB-TEST-133**

### Emirates Global Aluminium (EGA) Laboratories

**Al Taweelah | KIZAD | Abu Dhabi | United Arab Emirates**

**Date: 12-02-2025**

Accreditation History		
Issue no.	Details	Date

#### Environmental Testing

05	Reissued due to accreditation renewal with modifications in Test Material, Test Name and Test Method	12-02-2025
04	Certificate validity was extended for 6 months from 28-01-2025 up to 27-07-2025	28-01-2025
03	Renewal the accreditation	20-07-2022
02	Certificate validity was extended for 6 months from 28-01-2022 up to 27-07-2022	28-01-2022
1	Granted accreditation from EIAC	13-04-2020

## Accreditation Scope

### LB-TEST-133

## Emirates Global Aluminium (EGA) Laboratories

## Al Taweelah | KIZAD | Abu Dhabi | United Arab Emirates

Date: 12-02-2025

Accreditation History		
Issue no.	Details	Date

### Petroleum & Petrochemical Produ

06	issued due to accreditation renewal with modifications in Test Material, Test Name, and Test Method, along with a voluntary reduction in scope	12-02-2025
05	Certificate validity was extended for 6 months from 28-01-2025 up to 27-07-2025	28-01-2025
04	Reissued due to reduction in scope (remove Determination of Kinematic Viscosity of transparent and opaque liquids at 40 oC test)	31-12-2024
03	Renewal the accreditation	20-07-2022
02	Certificate validity was extended for 6 months from 28-01-2022 up to 27-07-2022	28-01-2022
1	Granted accreditation from EIAC	13-04-2020

## Accreditation Scope

### Metallurgical Testing

#### LB-TEST-133

## Emirates Global Aluminium (EGA) Laboratories

### Al Taweelah | KIZAD | Abu Dhabi | United Arab Emirates

Issue no.: 07

Date: 12-02-2025

Valid to: 27-01-2028

Type of Activity	Test Materials/Products	Test Name	Test Method
Metal Cleanliness Testing	Aluminum & Aluminum Alloys	PoDFA inclusion measurement	In-House Method EGA.CH.MET./TSK.01.01
		AISCAN hydrogen measurement	In-house Method EGA.CH.MET./TSK.01.02
Optical Metallography	Aluminum & Aluminum Alloys	-Spheroidization of Alpha AlFeSi Intermetallic Particles	In-House Method: EGA.CH.MET./TSK.02.03 EGA.CH.MET./TSK .02.09
		Secondary Porosity Density	EGA.CH.MET./TSK.03 EGA.CH.MET./TSK.03.06
		Grain Size by Intercept Method Standard Test Methods for Determining Average Grain Size	EGA.CH.MET./TSK. 03.01 based on ASTM E 112-13R21
Physical	Aluminum & Aluminum Alloys	Determination of density and density index using VAC test	In-House Method: EGA.CH.MET./TSK. 04.01

**Accreditation Scope**

**Metallurgical Testing**

**LB-TEST-133**

**Emirates Global Aluminium (EGA) Laboratories**

**Al Taweelah | KIZAD | Abu Dhabi | United Arab Emirates**

Issue no.: 07

Date: 12-02-2025

Valid to: 27-01-2028

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Aluminum & Aluminum Alloys	Standard Test Method for Analysis of Aluminum and Aluminum Alloys by Spark Atomic Emission Spectrometry using semi-automatic and fully automatic ARL 4460 OES instruments in three different locations: LAB 1 (Quantometer 1&2) LAB 2 (Quantometer 4) LAB 3 (Quantometer 5)	ASTM E 1251 QTL .TSK.06 and QTL .TSK.31

## Accreditation Scope

### Environmental Testing

#### LB-TEST-133

## Emirates Global Aluminium (EGA) Laboratories

### Al Taweelah | KIZAD | Abu Dhabi | United Arab Emirates

Issue no.: 05

Date: 12-02-2025

Valid to: 27-01-2028

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Drinking Water / Other Water / Waste Water	Determination of pH of Water	APHA 4500-H+ B EGA.LAB.TSK.07.01
		Determination of Conductivity of water	APHA 2510 B EGA.LAB.TSK.07.02
		Determination of Total Soluble Solids in water	APHA 2540 D EGA.LAB.TSK.07.08
		Determination of Total Dissolved Solids in water	APHA 2540 C EGA.LAB.TSK.07.03
		Total Alkalinity as CaCO <sub>3</sub>	APHA 2320 B EGA.LAB.TSK.07.06
		Chloride as Cl	APHA 4500 Cl- B ; EPA 300.1 EGA.LAB.TSK.07.05
		Determination of Total Calcium and Magnesium Hardness in water by EDTA titration	APHA 3500 CaB ; APHA 3500Mg B Total Hardness APHA 2340 C EGA.LAB.TSK.07.04

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### Environmental Testing

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Issue no.: 05

Date: 12-02-2025

Valid to: 27-01-2028

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Drinking Water / Other Water / Waste Water	Phosphate as PO <sub>4</sub>	APHA 4500-P E ; APHA 3120 B EGA.LAB.TSK.07.14 EGA.LAB.TSK.07.16
		Sulphate as SO <sub>4</sub>	APHA 4500 SO <sub>4</sub> ; EPA 300.1 EGA.LAB.TSK.07.15
		Determination of Fluoride in water by specific ion electrode	APHA 4500-F- C ; EPA 300.1 EGA.LAB.GEN.07.17
		Determination of Metal Content by using ICP-OES procedure	APHA 3120 B EGA.LAB.TSK.07.14



## Accreditation Scope

### Petroleum Petrochemical Product Testing

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Issue no.: 06

Date: 12-02-2025

Valid to: 27-01-2028

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Elemental Silicon	Analysis method of impurities in silicon by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)	GB/T 14849.4-2014 EGA.LAB.TSK.01.15
	Calcined Alumina	Determination of trace elements in Alumina through X-ray fluorescence spectrometric method	ISO 23201 EGA.LAB.TSK.03.05
	Calcined Petroleum Coke	Standard Test Method for Determination of Trace Metals in Petroleum Coke through X-ray fluorescence spectrometric method	ASTM D6376 EGA.LAB.TSK.03.06

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Issue no.: 06

Date: 12-02-2025

Valid to: 27-01-2028

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Aluminium & its alloys	Analysis of Aluminium and aluminium alloys by Inductively coupled Plasma Atomic optical emission spectral analysis (Atomic Emission Spectrometry (ICP-AES)) - Sodium hydroxide method ; Hydrochloric method	BS EN 14242 , EGA.LAB.TSK.01.13 & EGA.LAB.TSK.01.14
	Electrical Insulating Oil	Standard Test Method for Determination of Water in Petroleum Products, Lubricating Oils, and Additives by Coulometric Karl Fischer Titration	ASTM D6304 Method A & EGA.LAB.TSK.08.01

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### Petroleum Petrochemical Product Testing

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Issue no.: 06

Date: 12-02-2025

Valid to: 27-01-2028

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Electrical Insulating Oil	Standard Test Method for Acid Number of Petroleum Products by Potentiometric Titration(Total acidity in Petroleum Products (TAN))	ASTM D664 Method A & EGA.LAB.TSK.08.02
	Electrical Insulating Oil & Lubricating Oils	Standard Test Method for Flash Point by Pensky-Martens Closed Cup Tester (Tanaka automatic)	ASTM D93 & EGA.LAB.TSK.08.04