



ACCREDITATION CERTIFICATE

LB-TEST-132

Emirates International Accreditation Centre

has accredited

EMIRATES GLOBAL ALUMINIUM (EGA) LABORATORIES

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 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: 06-02-2025 to 20-01-2028

Initial Accreditation Date: 21-01-2016




Amina Ahmed Mohammed
CHIEF EXECUTIVE OFFICER



Accreditation Scope

LB-TEST-132

Emirates Global Aluminium (EGA) Laboratories

Jebel Ali | Dubai | United Arab Emirates

Date: 06-02-2025

Accreditation History		
Issue no.	Details	Date

Metallurgical

07	Reissued due to the renewal of accreditation, with updates to certain test materials, test names, and test methods	06-02-2025
06	Certificate validity was extended from 21-01-2025 up to 20-07-2025	21-01-2025
05	Renewal the accreditation	20-07-2022
04	Certificate validity was extended for 6 months from 21-01-2022 up to 20-07-2022	21-01-2022
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-132

Emirates Global Aluminium (EGA) Laboratories

Jebel Ali | Dubai | United Arab Emirates

Date: 06-02-2025

Accreditation History		
Issue no.	Details	Date

Environmental

05	Reissued due to the renewal of accreditation, with updates to certain test names and test methods	06-02-2025
04	Certificate validity was extended from 21-01-2025 up to 20-07-2025	21-01-2025
03	Renewal the accreditation	20-07-2022
02	Certificate validity was extended for 6 months from 21-01-2022 up to 20-07-2022	21-01-2022
01	Granted accreditation from EIAC	12-04-2020

Accreditation Scope

LB-TEST-132

Emirates Global Aluminium (EGA) Laboratories

Jebel Ali | Dubai | United Arab Emirates

Date: 06-02-2025

Accreditation History		
Issue no.	Details	Date

Petroleum & Petrochemical Product

05	Reissued due to the renewal of accreditation, with updates to certain test materials, test names, and test methods	06-02-2025
04	Certificate validity was extended from 21-01-2025 up to 20-07-2025	21-01-2025
03	Renewal the accreditation	20-07-2022
02	Certificate validity was extended for 6 months from 21-01-2022 up to 20-07-2022	21-01-2022
01	Granted accreditation from EIAC	12-04-2020

Accreditation Scope

Metallurgical Testing

LB-TEST-132

Emirates Global Aluminium (EGA) Laboratories

Jebel Ali | Dubai | United Arab Emirates

Issue no.: 07

Date: 06-02-2025

Valid to: 20-01-2028

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical	Aluminum & Aluminum Alloys	Brinell Hardness Testing (10/500 Kgm) Standard Test Method for Brinell Hardness of Metallic Materials	EGA.CH.MET/TSK.05.01 based on ASTM E 10-23
		Metallic materials - Tensile testing Part 1: Method of test at room temperature (Method B)	EGA.CH.MET/TSK.05.02 based on ISO 6892 Part 1
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

Accreditation Scope

Metallurgical Testing

LB-TEST-132

Emirates Global Aluminium (EGA) Laboratories

Jebel Ali | Dubai | United Arab Emirates

Issue no.: 07

Date: 06-02-2025

Valid to: 20-01-2028

Type of Activity	Test Materials/Products	Test Name	Test Method
Optical Metallography	Aluminum & Aluminum Alloys	Secondary Porosity Density	.02.09 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 E112
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-132

Emirates Global Aluminium (EGA) Laboratories

Jebel Ali | Dubai | United Arab Emirates

Issue no.: 07

Date: 06-02-2025

Valid to: 20-01-2028

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 - Optical Emission Spectroscopy using Thermo-ARL 4460 instruments in two locations: LAB 1 & LAB 2 Robotic Quantometers 6 & 8 Manual Quantometers 3, 5 & 7	ASTM E 1251 as per TL/MTD.11.03; TL/MTD.11.29; TL/MTD.11.31

Accreditation Scope

Environmental Testing

LB-TEST-132

Emirates Global Aluminium (EGA) Laboratories

Jebel Ali | Dubai | United Arab Emirates

Issue no.: 05

Date: 06-02-2025

Valid to: 20-01-2028

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

Accreditation Scope

Environmental Testing

LB-TEST-132

Emirates Global Aluminium (EGA) Laboratories

Jebel Ali | Dubai | United Arab Emirates

Issue no.: 05

Date: 06-02-2025

Valid to: 20-01-2028

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Drinking Water / Other Water / Waste Water	Phosphate as PO ₄	APHA 4500-P E EGA.LAB.TSK.07.16
		Sulphate as SO ₄	APHA 4500 SO ₄ EGA.LAB.TSK.07.15
		Determination of Fluoride in water by specific ion electrode	APHA 4500-F- C EGA.LAB.GEN.07.17

Accreditation Scope

Petroleum Petrochemical Product Testing

LB-TEST-132

Emirates Global Aluminium (EGA) Laboratories

Jebel Ali | Dubai | United Arab Emirates

Issue no.: 05

Date: 06-02-2025

Valid to: 20-01-2028

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Calcined Alumina	Determination of trace elements in Alumina through X-ray fluorescence spectrometric method	ISO 23201 & EGA.LAB.TSK.03.05
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
Chemical Testing	Aluminium & its alloys	Aluminium and aluminium alloys. Chemical analysis. Inductively coupled plasma optical emission spectral analysis(Atomic Emission Spectrometry (ICP-AES)) - Sodium hydroxide method ; Hydrochloric method	BS EN 14242 , EGA.LAB.TSK.01.14 & EGA.LAB.TSK.01.27

Accreditation Scope

Petroleum Petrochemical Product Testing

LB-TEST-132

Emirates Global Aluminium (EGA) Laboratories

Jebel Ali | Dubai | United Arab Emirates

Issue no.: 05

Date: 06-02-2025

Valid to: 20-01-2028

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Ferro-Silicon	Analysis method of impurities in Ferrosilicon by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)	GB/T 24194-2009 & EGA.LAB.TSK.01.16
Chemical Testing	Calcined Petroleum Coke	Standard Test Method for Determination of Trace Metals in Petroleum Coke by Wavelength Dispersive X-ray Fluorescence Spectroscopy	ASTM D6376 EGA.LAB.TSK.03.06
Chemical Testing	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

Accreditation Scope

Petroleum Petrochemical Product Testing

LB-TEST-132

Emirates Global Aluminium (EGA) Laboratories

Jebel Ali | Dubai | United Arab Emirates

Issue no.: 05

Date: 06-02-2025

Valid to: 20-01-2028

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
Chemical Testing	Electrical Insulating Oil & Lubricating Oils	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)	ASTM D445-& EGA.LAB.TSK.08.03
Chemical Testing	Electrical Insulating Oil & Lubricating Oils	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester (Tanaka automatic)	ASTM D93 EGA.LAB.TSK.08.04

Accreditation Scope

Petroleum Petrochemical Product Testing

LB-TEST-132

Emirates Global Aluminium (EGA) Laboratories

Jebel Ali | Dubai | United Arab Emirates

Issue no.: 05

Date: 06-02-2025

Valid to: 20-01-2028

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Electrical Insulating Oil	Standard Test Method for Analysis of Gases Dissolved in Electrical Insulating Oil by Gas Chromatography	ASTM D3612 Method (Headspace) & EGA.LAB.TSK.08.05