



ACCREDITATION CERTIFICATE

132-LB-TEST

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: 12/04/2020 to 20/01/2022

Initial Accreditation Date: 21/01/2016




CHIEF EXECUTIVE OFFICER
APPROVAL



Accreditation Scope

Metallurgical Testing

132-LB-TEST

Emirates Global Aluminium (EGA) Laboratories

Jebel Ali, Dubai- United Arab Emirates

Issue no.: 03

Date: 13-03-2019

Valid to: 20-01-2022

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	In-House Method EGA.CH.MET. TSK.05.01 ASTM E10
		Metallic materials - Tensile testing Part 1: Method of test at room temperature (Method B)	In-House Method EGA.CH.MET/TSK.05.02 ISO 6982 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

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Issue no.: 03

Date: 13-03-2019

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Type of Activity	Test Materials/Products	Test Name	Test Method
Optical Metallography	Aluminum & Aluminum Alloys	Spheroidization of Alpha-AlFeSi	In-House Method EGA.CH.MET./TSK.02.03
		Intermetallic Particles	EGA.CH.MET./TSK
		Secondary Porosity	.02.09
		Density	EGA.CH.MET./TSK.03 EGA.CH.MET./TSK.03.06
Physical	Aluminum & Aluminum Alloys	Grain Size by Intercept Method	In-House Method: EGA.CH.MET./TSK.
		Standard Test Methods for Determining Average Grain Size	03.01 ASTM E112
Physical	Aluminum & Aluminum Alloys	Determination of density and density index using VAC test	In-House Method: EGA.CH.MET./TSK. 04.01

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Aluminum disc Samples	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	ASTM E 1251 Together with In-house Method: TL/MTD.11.03 TL/MTD.11.29 TL/MTD.11.31 for robotic Quantometers 5, 6 & 8 and for manual Quantometers 3 & 7

Accreditation History		
Issue no.	Details	Date
3	Reduction in scope, renewal of the certificate and first issuance under the name of EIAC (which formally was known as DAC)	3/13/2019

Accreditation Scope
Environmental Testing

132-LB-TEST

Emirates Global Aluminium (EGA) Laboratories

Jebel Ali, Dubai- United Arab Emirates

Issue no.: 01

Date: 12-04-2020

Valid to: 20-01-2022

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Drinking Water / Other Water / Waste Water	Determination of pH of waters / Water Sample tested Inorganic Ventures pH 4, 10, 7 standards	EGA.LAB.TSK.07.01
	Drinking Water / Other Water / Waste Water	Determination of Conductivity of water / Water Sample tested Orion check standard 100µs/cm	EGA.LAB.TSK.07.02
	Drinking Water / Other Water / Waste Water	Total Alkalinity as CaCO ₃	EGA.LAB.TSK.07.06 in accordance with APHA 2320 B
	Drinking Water / Other Water / Waste Water	Chloride as Cl	APHA 4500 Cl- B EHA.LAB.TSK.07.05

Accreditation Scope
Environmental Testing
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Issue no.: 01

Date: 12-04-2020

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Drinking Water / Other Water / Waste Water	TSS	APHA 2540 D
	Drinking Water / Other Water / Waste Water	Determination of Total Dissolve Solids in water / Water Sample tested Inorganic Ventures standard	EGA.LAB.TSK.07.03
	Drinking Water / Other Water / Waste Water	Determination of Total Calcium and Magnesium Hardness in water by EDTA titration	EGA.LAB.TSK.07.04 APHA 3500Ca B, 3500Mg B Total Hardness 2340C
	Drinking Water / Other Water / Waste Water	Phosphate as PO ₄	APHA 4500-P E

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Drinking Water / Other Water / Waste Water	Sulphate as SO ₄	APHA 4500 SO ₄
	Drinking Water / Other Water / Waste Water	Determination of Fluoride in water by specific ion electrode	EGA.LAB.GEN.07.07

Accreditation History		
Issue no.	Details	Date
1	Granted accreditation from EIAC	12-04-2020

Accreditation Scope

Petroleum & Petrochemical Product Testing

132-LB-TEST

Emirates Global Aluminium (EGA) Laboratories

Jebel Ali, Dubai- United Arab Emirates

Issue no.: 01

Date: 12-04-2020

Valid to: 20-01-2022

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Calcined Alumina	Aluminium oxide primarily used for production of aluminium — Determination of trace elements — Wavelength dispersive X-ray fluorescence spectrometric method	ISO 23201 & EGA.LAB.TSK.03.05
	Aluminium & its alloys	Aluminium and aluminium alloys. Chemical analysis. Inductively coupled plasma optical emission spectral analysis (Atomic Emission Spectrometry (ICP-AES))	BS EN 14242 , EGA.LAB.TSK.01.13 & EGA.LAB.TSK.01.14

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Jebel Ali, Dubai- United Arab Emirates

Issue no.: 01

Date: 12-04-2020

Valid to: 20-01-2022

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Silicon Metal	Analysis method of impurities in silicon by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)	GB/T 14849.4-2014
	Ferro-Silicon	Analysis method of impurities in Ferro-silicon by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)	GB/T 24194-2009 & EGA.LAB.TSK.01.16

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Calcined Petroleum Coke	Standard Test Method for Determination of Trace Metals in Petroleum Coke by Wavelength Dispersive X-ray Fluorescence Spectroscopy Standard Test Method for Trace Metals in Petroleum Coke by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)	ASTM D6376 & ASTM D5600
	Electrical Insulating Oil Sample tested PL43RT5	Standard Test Method for Analysis of Gases Dissolved in Electrical Insulating Oil by Gas Chromatography	ASTM D3612 Method (Headspace) & EGALAB.TSK.08.05

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Electrical Insulating Oil Sample tested Merck Aquastar 1000ppm 7 100ppm standards	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
	Electrical Insulating Oil Sample tested GT1 GEN TX	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

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Chemical Testing	Electrical Insulating Oil & Lubricating Oils Sample tested STM Oil	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester (Tanaka automatic)	ASTM D93 & EGA.LAB.TSK.08.04
	Electrical Insulating Oil & Lubricating Oils Sample tested Cannon S60 reference oil	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)	ASTM D445 & EGA.LAB.TSK.08.03

Accreditation History		
Issue no.	Details	Date
1	Granted accreditation from EIAC	12-04-2020