



ACCREDITATION CERTIFICATE

133-LB-TEST

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: 13/04/2020 to 27/01/2022

Initial Accreditation Date: 28/01/2016




CHIEF EXECUTIVE OFFICER
APPROVAL



Accreditation Scope

Metallurgical Testing

133-LB-TEST

Emirates Global Aluminium (EGA) Laboratories

Al Taweelah, KIZAD, Abu Dhabi- United Arab Emirates

Issue no.: 03

Date: 13-03-2019

Valid to: 27-01-2022

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	In-House Method EGA.CH.MET./TSK. 03.01
		Standard Test Methods for Determining Average Grain Size	ASTM E112

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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
Chemistry	Aluminum disc Samples	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)	ASTM E 1251 QTL .TSK.06 and QTL .TSK.31

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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
Physical	Aluminum & Aluminum Alloys	Determination of Density and Density index using VAC test	In-house Method EGA.CH.MET./TSK.04.01

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)	13-03-2019

Accreditation Scope
Environmental Testing
133-LB-TEST

Emirates Global Aluminium (EGA) Laboratories

Al Taweelah, KIZAD, Abu Dhabi- United Arab Emirates

Issue no.: 01

Date: 13-04-2020

Valid to: 27-01-2022

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	water Sample tested Control Standard	Determination of pH of waters	EGA.LAB.TSK.07.01
		Determination of Conductivity of water	EGA.LAB.TSK.07.02
		Determination of Total Dissolve Solids in water	EGA.LAB.TSK.07.03
		Determination of Fluoride in water by specific ion electrode	EGA.LAB.GEN.07.07
	Water	Total Alkalinity as CaCO ₃	EGA.LAB.TSK.07.06 in accordance with APHA 2320 B
	Chloride as Cl	EHA.LAB.TSK.07.05 APHA 4500 Cl- B;	

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Issue no.: 01

Date: 13-04-2020

Valid to: 27-01-2022

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Water	TSS	APHA 2540 D
		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
		Phosphate as PO4	APHA 4500-P E
		Sulphate as SO4	APHA 4500 SO4
		Determination Of Metal Content By Using ICP OES Procedures	EGA.LAB.TSK.07.14 APHA 3030

Accreditation History		
Issue no.	Details	Date
1	Granted accreditation from EIAC	13-04-2020

Accreditation Scope

Petroleum & Petrochemical Product Testing

133-LB-TEST

Emirates Global Aluminium (EGA) Laboratories

Al Taweelah, KIZAD, Abu Dhabi- United Arab Emirates

Issue no.: 01

Date: 13-04-2020

Valid to: 27-01-2022

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Calcined Petroleum Coke Sample analysed RDC- STD A-508	Standard Test Method for Determination of Trace Metals in Petroleum Coke through X-ray fluorescence spectrometric method	ASTM D6376 – 10/ ASTM D5600
	Electrical Insulating Oil Sample tested Merck Aquastar 1000ppm standard	Moisture in Liquid Petroleum Products (Karl Fisher)	ASTM D6304A & EGA.LAB.TSK.08.01
	Electrical Insulating Oil Sample tested Paragon CRM TAN010 Lot No. 4163009	Total acidity in Petroleum Products (TAN)	ASTM D664 Method A & EGA.LAB.TSK.08.02

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Electrical Insulating Oil & Lubricating Oils Sample tested HTM Oil from Carbon Plant	Flash Point by Pensky-Martens Closed Cup (Tanaka automatic)	ASTM D93 & EGA.LAB.TSK.08.04
	Electrical Insulating Oil & Lubricating Oils Sample tested Cannon CRM S3 oil	Kinematic Viscosity of transparent and opaque liquids	ASTM D445-19 & EGA.LAB.TSK.08.03
	Calcined Alumina Sample analysed ALU-03 ex Alcan	Determination of trace elements in Alumina through X-ray fluorescence spectrometric method	ISO 23201 & EGA.LAB.TSK.03.05
	Aluminium & its alloys Samples tested: C59XG7020 (acid) Ti C15X A13500 (Alkali) Cu, Mg, Si, Fe, Mn, Ni, Zn, Ti, Cr, V	Analysis of Aluminum and Aluminum Alloys by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)	EGA.LAB.TSK.01.13 EGA.LAB.TSK.01.14 BS-EN 14242

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Silicon Metal Sample tested IPT 135 Fe, Ca, P, Al, V, Ti, Ni, Mn	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	Ferro-Silicon Sample tested IPT 143 Fe, Ca, P, Al, Ti, Mn	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

Accreditation History		
Issue no.	Details	Date
1	Granted accreditation from EIAC	13-04-2020