Hellenic Accreditation System

Annex F1/12 to the Certificate No. **428**-7

SCOPE of ACCREDITATION

of the

Quality Control Laboratory

of

MYTILINEOS S.A.

METALLURGY BUSINESS UNIT

Plant Aluminium of Greece, Agios Nicolaos, Viotia

Materials / Products to be tested	Types of test / Properties to be measured	Applied methods / Techniques to be used
Physical tests		
Aluminium Ores	% Humidity	Aluminium ores: Determination of humidity In house (M-BΩ-0002)
Hydrate Alumina	% Passing from the sieve 45μm (% -45μm)	Aluminium oxide used for the production of primary aluminium – Particle size analysis for the range 45μm to 150μm – method using electroformed sieves ISO 2926:2013
	% Passing from the sieve 75μm (% -75μm)	
Calcined Alumina	% Retaining on the sieve 150μm (% +150μm)	Aluminium oxide used for the production of primary aluminium – Particle size analysis for the range 45μm to 150μm – method using electroformed sieves ISO 2926:2013
	% Passing from the sieve 75μm (% -75μm)	
	% Passing from the sieve 45μm (% -45μm)	

Materials / Products to be tested	Types of test / Properties to be measured	Applied methods / Techniques to be used
	Specific area m^2/gr	Aluminium oxide used for the production of primary aluminium – determination of specific surface area by nitrogen absorption ISO 8008:2005 (E)
	Attrition index	Alumina - Determination of attrition index ISO 17500:2006
Chemical tests		
Aluminium Ores	% Al_2O_3	Aluminium ores: Chemical analysis- X-ray fluorescence spectrometric method In house (M-BΩ-0010)
	% Fe_2O_3	
	% SiO_2	
	% CaO	
	% S	
	% TiO_2	
	% V_2O_5	
	% Zn	
	% LOI 105-1000ºC	Aluminium ores: Determination of loss of mass at 1000ºC AS 2932.3-2004
Hydrate and Calcined Alumina	CaO ppm	Alumina: Determination of trace elements – Wavelength dispersive X-ray fluorescence spectrometric method AS 2879.7-1997
	Fe_2O_3 ppm	
	Ga_2O_3 ppm	
	Na_2O ppm	
	P_2O_5 ppm	
	S ppm	
	SiO_2 ppm	
	TiO_2 ppm	
	V_2O_5 ppm	
	ZnO ppm	
Calcined Alumina	% a-Al_2O_3	Alumina – Determination of alpha alumina content by X-ray diffraction- In house (M-AΔ-0008)
	% Hydrargillite	Alumina – Determination of Hydrargillite content by X-ray diffraction- In house (M-AΔ-0037)
	% LOI (300-1000ºC)	Alumina – Determination of loss of mass at 300 and 1000ºC ISO 806:2004
	Li_2O ppm	Alumina – Determination of lithium – Atomic absorption spectroscopy In house (M-AΔ-0005)

Materials / Products to be tested	Types of test / Properties to be measured	Applied methods / Techniques to be used
Lime	% CO_2	Lime: Determination of % CO_2 TGA701 In house (M-AΔ/BΩ-0004)
Aluminium and Aluminium Alloys	% As	Standard Practice for Analysis of Aluminium and Aluminium Alloys by Atomic Emission Spectrometry ASTM E 1251-17a
	%B	
	% Ca	
	% Cd	
	% Cr	
	% Cu	
	% Fe	
	% Ga	
	% Li	
	% Mg	
	% Mn	
	% Na	
	% Ni	
	% Pb	
	% Si	
	% Ti	
	% V	
	% Zn	
	% Zr	
	% Bi	
	% Be	
	% Co	
	% Hg	

Site of assessment: **Permanent laboratory premises, Plant Aluminium of Greece, Agios Nikolaos, Viotia, Greece.**
Approved signatories: **Vasiliki Vasiliadou, Paraskevi Soupsana, Athina Filippou, Sotirios Dimou.**

This Scope of Accreditation replaces the previous one dated 21.04.2021.
The Accreditation Certificate No. **428**-7, to ELOT EN ISO/IEC 17025: 2017, is valid until 25.05.2024.

Athens, 3.05.2022

Christos Nestoras
CEO of ESYD