



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name ALUPURAM QUALITY ASSURANCE LABORATORY, HINDALCO INDUSTRIES LIMITED, ALUPURAM WORKS, KOCHI, ERNAKULAM, KERALA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8532 Page No. : 1 / 2

Validity 04/06/2019 to 03/06/2021 Last Amended on 13/06/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
1	CHEMICAL- METALS & ALLOYS	Aluminium Cast	Bismuth	ASTM E1251: 2017	0.001 % to 0.07 %
2	CHEMICAL- METALS & ALLOYS	Aluminium Cast	Boron	ASTM E1251: 2017	0.0001 % to 0.07 %
3	CHEMICAL- METALS & ALLOYS	Aluminium Cast	Chromium	ASTM E1251: 2017	0.004 % to 0.5 %
4	CHEMICAL- METALS & ALLOYS	Aluminium Cast	Copper	ASTM E1251: 2017	0.05 % to 6.8 %
5	CHEMICAL- METALS & ALLOYS	Aluminium Cast	Iron	ASTM E1251: 2017	0.1 % to 1.4 %
6	CHEMICAL- METALS & ALLOYS	Aluminium Cast	Lead	ASTM E1251: 2017	0.001 % to 0.07 %
7	CHEMICAL- METALS & ALLOYS	Aluminium Cast	Magnesium	ASTM E1251: 2017	0.2 % to 3.5 %
8	CHEMICAL- METALS & ALLOYS	Aluminium Cast	Manganese	ASTM E1251: 2017	0.05 % to 1.5 %
9	CHEMICAL- METALS & ALLOYS	Aluminium Cast	Nickel	ASTM E1251: 2017	0.0001 % to 1.4 %
10	CHEMICAL- METALS & ALLOYS	Aluminium Cast	Silicon	ASTM E1251: 2017	0.1 % to 13 %
11	CHEMICAL- METALS & ALLOYS	Aluminium Cast	Tin	ASTM E1251: 2017	0.001 % to 0.07 %
12	CHEMICAL- METALS & ALLOYS	Aluminium Cast	Titanium	ASTM E1251: 2017	0.02 % to 0.5 %
13	CHEMICAL- METALS & ALLOYS	Aluminium Cast	Vanadium	ASTM E1251: 2017	0.001 % to 0.07 %



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14	CHEMICAL- METALS & ALLOYS	Aluminium Cast	Zinc	ASTM E1251: 2017	0.001 % to 7 %
15	CHEMICAL- METALS & ALLOYS	Aluminium Cast	Zirconium	ASTM E1251: 2017	0.001 % to 0.25 %
16	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	Aluminium Extrusions	Electrical Resistivity	ASTM B 193: 2016	2.0 $\mu$ ohm.cm to 6.0 $\mu$ ohm.cm
17	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	Aluminium Extrusions	IACS	ASTM B193: 2016	30 % to 70 %
18	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Extrusions	0.2 % Proof Strength	IS 1608 (Part 1): 2018	1 kg/mm <sup>2</sup> to 50 kg/mm <sup>2</sup>
19	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Extrusions	Elongation	IS 1608 (Part 1): 2018	0 % to 30 %
20	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Extrusions	Ultimate Tensile Strength	IS 1608 (Part 1): 2018	5 kg/mm <sup>2</sup> to 70 kg/mm <sup>2</sup>