

Laboratory Smelter Technical Laboratory, Hindalco Industries Limited, Unit:
Mahan Aluminium, NH-75 E, Singrauli Sidhi Road, P.O. Bargawan,
District Singrauli, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7306

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Validity 28.05.2018 to 27.05.2020

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I.	METALS & ALLOYS			
1.	Aluminum and Its Alloys	Si	ASTM-E1251-11 (Optical Emission Spectrometry)	0.02 % to 3 %
		Fe		0.02 % to 1.2 %
		Mn		0.0005 % to 1.5 %
		Mg		0.0005 % to 2.0 %
		Cu		0.0005 % to 2.0 %
		Zn		0.0005 % to 1.0 %
		Ti		0.0005 % to 0.2 %
		V		0.0005 % to 0.03 %
		B		0.0005 % to 0.05 %
		Cr		0.0005 % to 0.35 %
		Pb		0.0005 % to 0.1 %
		Na		0.0005 % to 0.01 %
		Ni		0.0005 % to 0.1 %
		Zr		0.0005 % to 0.01 %
		Ga		0.0001 % to 0.05 %
		Ca		0.0001 % to 0.02 %
P	0.0001 % to 0.02 %			
Sn	0.0001 % to 0.02 %			
Bi	0.0001 % to 0.02 %			
	Li	0.0001 % to 0.02 %		

Mandeep Kumar
Convenor

Alok Jain
Program Director

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<u>MECHANICAL TESTING</u>				
I.	MECHANICAL PROPERTIES OF METALS			
1.	Aluminium and Its Alloys	UTS	IS 1608 ASTM B557M-15	5 kg/mm ² to 25 kg/mm ²
		Elongation	IS 1608 ASTM B557M-15	1 %to 50%

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<u>ELECTRICAL TESTING</u>				
I.	CONDUCTORS & CONDUCTING MATERIALS			
1.	Bare Conductors Aluminum Alloys wire Rod	Conductivity	ASTM B193-16	300 $\mu\Omega$ to 1000 $\mu\Omega$

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