

Laboratory Quality Assurance Laboratory, Plant-1, Vedanta Limited-Aluminium & Power, Jharsuguda, Odisha

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5206 (in lieu of T-3184, T-3185 & T-3186) Page 1 of 3

Validity 14.11.2016 to 13.11.2018 Last Amended on 13.01.2017

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

CHEMICAL TESTING

I.	METALS & ALLOYS			
1.	Aluminium & Aluminium Alloys	Fe	ASTM E 1251-11	0.053 % to 0.64 %
		Si	ASTM E 1251-11	0.052 % to 7.27 %
		Ti	ASTM E 1251-11	0.005 % to 0.18 %
		V	ASTM E 1251-11	0.016 % to 0.022 %
		Mn	ASTM E 1251-11	0.006 % to 1.1 %
		Zn	ASTM E 1251-11	0.0065 % to 0.72 %
		Cu	ASTM E 1251-11	0.0052 % to 3.11 %
		Cr	ASTM E 1251-11	0.0066 % to 0.21 %
		Zr	ASTM E 1251-11	0.0018 % to 0.0034 %
		B	ASTM E 1251-11	0.0014 % to 0.0023 %
		Ga	ASTM E 1251-11	0.014 % to 0.024 %
		Na	ASTM E 1251-11	0.0012 % to 0.034 %
		Ni	ASTM E 1251-11	0.0147 % to 0.049 %
		Be	ASTM E 1251-11	0.001 % to 0.0017 %
	Ca	ASTM E 1251-11	0.001 % to 0.004 %	
	Co	ASTM E 1251-11	0.0011 % to 0.002 %	
	Mg	ASTM E 1251-11	0.0033 % to 4.97 %	
	P	ASTM E 1251-11	0.0012 % to 0.004 %	

Mallika Gope
Convenor

N. Venkateswaran
Program Director

Laboratory **Quality Assurance Laboratory, Plant-1, Vedanta Limited-Aluminium & Power, Jharsuguda, Odisha**
Accreditation Standard **ISO/IEC 17025: 2005**
Certificate Number **TC-5206 (in lieu of T-3184, T-3185 & T-3186)** **Page 2 of 3**
Validity **14.11.2016 to 13.11.2018** **Last Amended on 13.01.2017**

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

ELECTRICAL TESTING

1.	ELECTRICAL MATERIALS - CONDUCTORS			
1.	Aluminium-Wire Rod	Conductivity	ASTM B 193-16	50 % IACS to 63 % IACS

Mallika Gope
Convenor

N. Venkateswaran
Program Director

Laboratory **Quality Assurance Laboratory, Plant-1, Vedanta Limited-Aluminium & Power, Jharsuguda, Odisha**
Accreditation Standard **ISO/IEC 17025: 2005**
Certificate Number **TC-5206 (in lieu of T-3184, T-3185 & T-3186)** **Page 3 of 3**
Validity **14.11.2016 to 13.11.2018** **Last Amended on 13.01.2017**

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

MECHANICAL TESTING

I.	MECHANICAL PROPERTIES OF METALS			
1.	Aluminium Wire Rod	Elongation	ASTMB 557:15	1 % to 40%
		UTS	ASTMB 557:15	2 kN to 50 kN

Mallika Gope
Convenor

N. Venkateswaran
Program Director