

**Laboratory** Chaitanya NDT & Analytical Services, S. No. 13/6, 1/1 A, Nanded Phata, Sinhagad Road, Pune Maharashtra

**Accreditation Standard** ISO/IEC 17025:2005

**Discipline** Chemical Testing **Issue Date** 06.05.2015

**Certificate Number** T-3407 **Valid Until** 05.05.2017

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b>I.</b>	<b>METALS &amp; ALLOYS</b>			
<b>1.</b>	<b>Low Alloy Steel</b>	Carbon	ASTM E 415: 2014 IS 8811: 1998	0.04 % to 1.50 %
		Silicon		0.04 % to 1.50 %
		Manganese		0.19 % to 1.50 %
		Sulphur		0.002 % to 0.40 %
		Phosphorus		0.004 % to 0.080 %
		Chromium		0.10 % to 3.10 %
		Nickel		0.10 % to 4.20 %
		Molybdenum		0.09 % to 0.90 %
		Aluminium		0.01 % to 1.10 %
		Vanadium		0.008 % to 0.50 %
		Copper		0.014 % to 0.70 %
		Lead		0.0002 % to 0.30 %
<b>2.</b>	<b>Stainless Steel</b>	Carbon	ASTM E 1086: 2014 IS 9879: 1998	0.01 % to 0.10 %
		Silicon		0.4 % to 0.6 %
		Manganese		0.7 % to 1.8 %
		Sulphur		0.01 % to 0.2 %
		Phosphorus		0.02 % to 0.035 %
		Chromium		11.0 % to 26.0 %

**Rahul Jain**  
Convenor

**N. Venkateswaran**  
Program Manager

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3.	Stainless Steel	Nickel	ASTM E 1086: 2014 IS 9879: 1998	0.4 % to 20.50 %
		Molybdenum		0.09 % to 2.20 %
		Aluminium		0.004 % to 0.2 %
		Cobalt		0.05 % to 0.06 %
	Aluminium & Aluminium Base Alloys	Zinc	ASTM E 1251: 2011 IS 11035: 1984 (RA 2000)	0.2 % to 0.35 %
		Lead		0.002 % to 0.16 %
		Magnesium		0.05 % to 1.10 %
		Iron		0.80 % to 1.10 %
		Nickel		0.01 % to 0.30 %
		Copper		0.01 % to 6.00 %
4.	Copper & Copper Base Alloys	Silicon	ASTM E 1086: 2014 IS 9879: 1998	0.14 % to 15.0 %
		Manganese		0.007 % to 0.15 %
		Titanium		0.01 % to 0.25 %
		Zinc		0.09 % to 34 %
		Lead		0.07 % to 10.5 %
		Tin		0.04 % to 11 %
		Aluminium		0.002 % to 11 %
Manganese	0.06 % to 0.5 %			
	Iron	0.003 % to 6.1 %		

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	Copper & Copper Base Alloys	Nickel	ASTM E 1086: 2014 IS 9879: 1998	0.02 % to 3.8 %
		Antimony		0.06 % to 0.4 %
		Arsenic		0.03 % to 0.15 %
		Phosphorus		0.007 % to 0.3 %
		Silicon		0.002 % to 0.12 %

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