

Laboratory **Electralloy Special Steel Castings Pvt. Ltd, Plot No.25, SIPCOT Industrial Complex, 6th Cross Road, Hosur, Tamil Nadu**

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

Discipline **Chemical Testing** **Issue Date** **30.06.2016**

Certificate Number **T-3060** **Valid Until** **29.06.2018**

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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
I.	METALS & ALLOYS			
1.	Ferrous Alloys Plain Carbon & Low Alloy Steel	C	IS 8811: 1998 (RA 2012) ASTM E 415- 15 & ESSCPL/MSP/ Spectro –CS-LAS Rev.00 (Issue No.03 & Issue Date. 03.03.2016)	0.01 % to 1.40 %
		Mn		0.04 % to 1.70 %
		Si		0.05 % to 1.90 %
		S		0.001 % to 0.080 %
		P		0.008 % to 0.080 %
		Cr		0.050 % to 5.50 %
		Ni		0.030 % to 4.60 %
		Cu		0.010 % to 0.76 %
		Mo		0.001 % to 1.5 %
		W		0.10 % to 0.30 %
		V		0.001 % to 0.50 %
		Nb		0.003 % to 0.10 %
		Ti		0.05 % to 0.15 %
		Al		0.005 % to 0.50 %
		B		0.001 % to 0.003 %
	N	0.004 % to 0.020 %		
	Co	0.003 % to 0.25 %		
	Pb	0.0005 % to 0.020 %		

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	Ferrous Alloys Plain Carbon & Low Alloy Steel	Zr	IS 8811: 1998 (RA 2012)	0.001 % to 0.06 %
		Sn	ASTM E 415- 15 & ESSCPL/MSP/Spectro – CS-LAS Rev.00	0.001 % to 0.13 %
		Sb	(Issue No.03 & Issue Date. 03.03.2016)	0.001 % to 0.10 %
2.	Ferrous Alloys Stainless & Duplex Steel	C	IS 9879: 1998 (RA 2009), ASTM E 1086-14 & ESSCPL/MSP/Spectro –SS-DSS Rev.00	0.007 % to 0.80 %
		Mn	(Issue No.03 & Issue Date. 03.03.2016)	0.1 % to 2.50 %
		Si		0.1 % to 1.3 %
		S		0.001 % to 0.035 %
		P		0.006 % to 0.055 %
		Cr		4.00 % to 28.00 %
		Ni		0.20 % to 37.00 %
		Cu		0.02 % to 5.0 %
		Mo		0.10 % to 7.0 %
		W		0.01 % to 6.5 %
		V		0.01 % to 1.20 %
		Nb		0.005 % to 1.2 %
	Ti		0.001 % to 0.60 %	
	Al		0.001 % to 0.050 %	

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	Ferrous Alloys Stainless & Duplex Steel	B	IS 9879: 1998 (RA 2009), ASTM E 1086-14 & ESSCPL/MSP/Spectro –SS-DSS Rev.00 (Issue No.03 & Issue Date. 03.03.2016)	0.0001 % to 0.005 %
		N		0.01 % to 0.32 %
		Co		0.01 % to 0.20 %
		Sn		0.001 % to 0.02 %
		Zr		0.001 % to 0.003 %
3.	Nickel Base Alloy	C	ESSCPL/MSP/Spectro – Ni Rev.00 (Issue No.03 & Issue Date. 03.03.2016)	0.001 % to 0.25 %
		Mn		0.10 % to 1.3 %
		Si		0.02 % to 1.2 %
		S		0.0001 % to 0.03 %
		P		0.001 % to 0.03 %
		Cr		0.01 % to 24 %
		Cu		0.01 % to 37.0 %
		Mo		0.01 % to 33.0 %
		W		0.01 % to 5.25 %
		V		0.01 % to 0.50 %
		Nb		0.01 % to 4.5 %
		Ti		0.01 % to 1.0 %
	Al	0.01 % to 0.40 %		

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	Nickel Base Alloy	Co	ESSCPL/MSP/Spectro – Ni Rev.00 (Issue No.03 & Issue Date. 03.03.2016)	0.01 % to 1.1 %
		N		0.001 % to 0.02 %
		Fe		1.0 % to 35.0 %

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