

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	Mechanical Testing	Issue Date	30.06.2016
Certificate Number	T-3018	Valid Until	29.06.2018
Last Amended on	05.07.2016	Page	1 of 2

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	MECHANICAL PROPERTIES OF METALS			
1.	Ferrous Materials	Tensile Test at RT Tensile Strength Yield Stress 0.2 & 1% Proof Stress % Elongation % Reduction in Area	IS 1608: 2005 (RA 2011) ASTM E 8: 2015a ASTM A 370: 2015 ISO 6892-1: 2009	Upto 180 kN Upto 80 % Upto 80 %
		Bend Test	IS 1599: 2012 ISO 7438: 2005 ASTM A 370: 2015	Qualitative (Mandrel Diameter: 6, 12, 24 & 50 mm)
		Charpy Impact – V Notch Charpy Impact – U Notch	IS 1757: 1998 (RA 2009) IS 1499: 1997 (RA 2009) ISO 148-1: 2009	300 J / 2 J Ambient Temperature to Minus 196 °C
		Brinell Hardness	IS 1500-1: 2013 ISO 6506-1: 2005 ASTM A 370: 2015 ASTM E 10: 2015a	HBW 10/3000 100 HBW to 450 HBW
		Rockwell Hardness Scale – B & C	IS 1586-1: 2012 ISO 6508-1: 2005 ASTM E18: 2015 ASTM A 370: 2015	40 HRBW to 100 HRBW 20 HRC to 68 HRC
		Macro Examination	IS 11371: 1985 (RA 2012) ASTM E 381: 2001 (RA 2012)	Qualitative (10X , 20X)
		Microstructure Examination	ASM Handbook Volume 9 (9 th Edition): 1992	Qualitative (100X, 200X, 500X)

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	Ferrous Materials	Grain Size (Comparison Method)	IS 4748: 2009 ASTM E 112: 2013	ASTM No. 1 to 10
2.	Duplex Stainless Steel	Sodium hydroxide Etch Test (Method A)	ASTM A 923: 2014	Qualitative (400 X, 500 X)
		Ferrite Estimation	ASTM E 562: 2011 (Manual Point Count)	15 % to 80 %
		Intergranular – Corrosion Test Practice A Practice B Practice E Practice F. Method A	ASTM A 262: 2015 EN ISO 3651-2: 1998	250 x, 500 x (Qualitative) (1 Mils to 200 Mils)/Year 180° / 1 T (Qualitative) (1 Mils to 200 Mils)/Year 90° / 1 T (Qualitative)
		Pitting Corrosion Test	ASTM G 48: 2011 (Method A) ASTM A 923: 2014 (Method C)	1 mdd to 200 mdd

-X-X-X-X-X-X-X-X-X-X-X-X-