

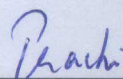


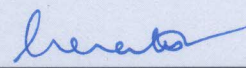
NABL

SCOPE OF ACCREDITATION

Laboratory	Bharat Forge Ltd. - Metallurgical Lab, Mundhwa, Pune, Maharashtra	Issue Date	21.12.2015
Accreditation Standard	ISO/IEC 17025: 2005	Valid Until	20.12.2017
Discipline	Mechanical Testing	Page	1 of 2
Certificate Number	T-2114		
Last Amended on	-		

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 MATERIALS				
1.	Metallic Material	Tensile 0.2 % Proof Stress	ASTM A 370: 2014 ASTM E8 / E 8M: 2013a	2 kN to 250 kN
		Ultimate Tensile Strength % Elongation	JIS Z 2241 :2011	5 % to 40 %
		% Reduction In Area	ISO 6892-1: 2009 IS 1608: 2005	15 % to 80 %
		Charpy Impact	ASTM E 23: 2012c JIS Z 2242: 2005 ISO 148 (Part 1): 2015 DIN 50115: (1991-04) IS 1499: 1977 IS 1757:1988 (RA 1994)	2 J to 350 J (-) 60 °C to (+) 80 °C
		Izod Impact	BS131 (Part 1): 1961 IS 1598: 1977	2 J to 150 J
		Brinell Hardness	ASTM E 10: 2014 ISO 6506-1: 2014 IS 1500: 2013	125 HBW to 600 HBW (10/3000)
		Rockwell Hardness	ASTM E 18: 2015 IS1586: 2012	70 HRA to 95 HRA 20 HRB to 100 HRB 20 HRC to 70 HRC 70 HR to 94 HR 15 N 42 HR to 86 HR 30 N 20 HR to 77 HR 45 N
		Vickers Hardness	ASTM E384: 2011e1	140 to 1100 HV0.5,1.0


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