

<b>Laboratory</b>	<b>Unique Metallurgical Services, Plot No. 991/3/A-1, G.I.D.C Makarpura, Vadodara, Gujarat</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Mechanical Testing</b>	<b>Issue Date</b>	<b>18.09.2014</b>
<b>Certificate Number</b>	<b>T-3115</b>	<b>Valid Until</b>	<b>17.09.2016</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>I.</b>	<b>MECHANICAL PROPERTIES OF MATERIALS</b>			
<b>1.</b>	<b>Metals &amp; Alloys</b>	Tensile Test -Ultimate Tensile Test -Yield/Proof Stress -%Elongation	ASTM E 8: 2013 IS 1608: 2005 ASTM A 370-2010a	10 kN to 1000 kN
		Bend Test	IS 1599: 2012 ASTM E 290: 2013	Thickness & Diameter Upto 60 mm
		Rockwell Hardness Test	ASTM E 18: 2014 IS 1586: 2012	HRB 20 to 100 HRC 20 to 70
		Brinell Hardness	ASTM E 10: 2012 IS 1500: 2005	HBW 10/3000 HBW 5/750
		Vickers Hardness Test	IS 1501: 2013 ASTM E 384: 2011	HV 30
		Charpy V Notch Impact Test	ASTM E 23: 2012c	10 J to 240 J
		Micro Examination	ASTM E 340: 2013	Qualitative
		Microstructure	ASTM E 407: 2007	Qualitative
		Inclusion Rating	ASTM E 45: 2013 Method A	Qualitative
		Grain Size Measurement (Linear Intercept Method)	ASTM E 112: 2013	Qualitative
<b>2.</b>	<b>Metal &amp; Alloys Tubes/ Pipes</b>	Flattering Test	IS 2328: 2005	Qualitative
<b>3.</b>	<b>Nuts</b>	Proof Load	ASTM A 370: 2012 a ASTM A 194: 2010 IS 1367 Part: 14	10 kN to1000 kN

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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
4.	Stainless Steels	IGC Practice A IGC Practice C IGC Practice	ASTM A 262: 2013 ASTM A 262: 2013 ASTM A 262: 2013	Qualitative Qualitative Qualitative

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