

Laboratory Jindal Fittings Ltd., B-13, MIDC Tembhum, Taluka-Madha, Dist-Solapur, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8305

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Validity 27.01.2019 to 26.01.2021

Last Amended on --

*"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"*

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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**CHEMICAL TESTING**

I.	METAL & ALLOYS			
1.	Ductile Iron & Cast Iron	Carbon (C)	ASTME1999 IS15338 JIS G 1253	1.8 % to 4.0%
		Silicon (Si)		0.005% to 3.3%
		Manganese (Mn)		0.025% to 2.35%
		Phosphorous(P)		0.005% to 0.90%
		Sulphur (S)		0.001% to 0.25%
		Chromium (Cr)		0.02 % to 2.10%
		Nickel (Ni)		0.01 % to 3.30%
		Molybdenum (Mo)		0.001% to 0.55%
		Titanium (Ti)		0.005% to 0.1%
		Copper (Cu)		0.01% to 0.70%
		Tin (Sn)		0.005% to 0.25%
		Magnesium (Mg)		0.001% to 0.08%
		Aluminium (Al)		0.001% to 0.1%
Lead (Pb)	0.001 % to 0.03%			

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<b><u>MECHANICAL TESTING</u></b>				
I.	<b>MECHANICAL PROPERTIES OF METALS</b>			
1.	<b>Ferrous Metal – Ductile Iron &amp; Cast iron</b>	Ultimate Tensile Strength (UTS)	ISO 6892-1 IS 1608	60 MPa to 1700 MPa
		Proof Strength (0.2% offset)		50 MPa to 1500 MPa
		%Elongation		2% to 30%
		Brinell Hardness Test	ISO 6506-1 IS 1500 (Part 1)	100 HBW to 300 HBW (5/750) & (10/3000)