

Laboratory Central Laboratory, AURDC, HAL, Aircraft Division, Ojhar Township,  
Taluka-Niphad, District-Nasik, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6555 (in lieu of T-2505, T-2506 & T-2507) Page 1 of 3

Validity 26.10.2017 to 25.10.2019 Last Amended on 15.11.2017

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.	METALS & ALLOYS			
1.	Carbon Steel (Low Carbon, Medium Carbon & High Carbon Steel)	Carbon Sulphur	IS 228 (Part20): 2003 (RA 2008)	0.10 % to 1.00 % 0.010 % to 0.040 %

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**MECHANICAL TESTING**

I.	<b>RUBBER AND RUBBER PRODUCTS</b>			
1.	Rubber and rubber products	Tensile strength	ASTM D 412-2016	20 kg/cm <sup>2</sup> to 400 kg/cm <sup>2</sup>
		Density	IS 3400 Part 9: 2014	0.900 g/cc to 3.000 g/cc
II.	<b>METALLOGRAPHY TEST</b>			
1.	Steel & Alloys	Case depth of steel - Microscope Method	IS 6416: 1988 (RA 2012) Cl. 8	0.1 mm to 1.5 mm
		Decarburized depth of steel - Microscopic Method	IS 6396: 2000 (RA 2012) Cl. 6	0.1 mm to 1.5 mm

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**NON DESTRUCTIVE TESTING**

I.	<b>METALS &amp; ALLOYS</b>			
A.	<b>Radiography Testing</b>			
1.	<b>Steel &amp; Alloys</b>	X-Ray radiography Inspection (X-ray) - Thickness of steel and equivalent thickness of other materials	GOST 7512 - 82	1 mm to 30 mm
B.	<b>Ultrasonic Testing</b>			
1.	<b>Steel &amp; Alloys</b>	Ultrasonic testing	ASTM E 127: 2010 ASTM B 594: 2013	10 mm to 150 mm Sensitivity 1.2 mm FBH