

Laboratory	Materials Laboratory, Wabco India Ltd., Plant-1, III Main Road, Ambattur Industrial Estate, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	30.06.2014
Certificate Number	T-3021	Valid Until	29.06.2016
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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
I. MECHANICAL PROPERTIES OF MATERIALS				
1.	Ferrous & Non - Ferrous Material (Aluminum, Al alloys, Brass & brass alloys)	Rockwell Hardness	IS 1586 (Part-1): 2012 ISO 6508-1, 2005 ASTM E 18-2014 ASTM A370-2013	20 HRA to 88 HRA 20 HRBW to 100 HRBW 20 HRC to 70 HRC
		Vickers Hardness	IS 1501 (Part-1): 2013 ISO 6507-1, 2005 ASTM E384-2011 IS 6416 : 1988	50 HV10 to 1000 HV10 50 HV5 to 1000 HV5 50 HV1 to 1000 HV1
		Brinell Hardness	IS 1500 (Part-1): 2013 ISO 6506-1, 2005 ASTM E10-2012	60 HBW 5/750 to 600 HBW 5/750 100 HBW 10/3000 to 500 HBW 10/3000
		Micro Vickers Hardness	IS 6416 : 1988 IS 1501 : 2002 ISO 6507-1, 2005 ASTM E384-2011	200 HV 0.2 to 800 HV 0.2 200 HV 0.3 to 800 HV 0.3 100 HV 0.5 to 800 HV 0.5
		Tensile strength Yield Strength 0.2 % Proof stress % Elongation % Reduction in area	IS 1608 : 2005 ISO 6892-1, 2009 ASTM A370-2013 ASTM E8-2013	70 N/mm ² to 1500 N/mm ² 50 N/mm ² to 1500 N/mm ² 50 N/mm ² to 1500 N/mm ² 1 % to 80 % 0 to 80 %

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II. PLASTICS AND RUBBER				
1.	Rubber	Density	ISO 2781-2008 IS 3400 (Part 9): 2003	1 g/cm ³ to 200 g/cm ³
		Rubber Micro Hardness Tester	IS 3400 (Part 2): 2003 ISO 48-2010	30 IRHD to 95 IRHD
		Tensile strength Elongation at break	IS 3400 (Part 1): 2012 ISO 37-2011 ASTM D 412-06ae2	1 N/mm ² to 25 N/mm ² 100 % to 800 %
		Tear Resistance	ISO 34-1, 2010 ASTM D 624-2007	0 to 100 N/mm

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