

Laboratory **Shri Krishna Test House, B-70/1, Gali No. 8, New Modern Shahdara, Mansarover Park, Delhi**

Accreditation Standard **ISO/IEC 17025: 2005**

Discipline **Mechanical Testing** **Issue Date** **05.08.2014**

Certificate Number **T-1726** **Valid Until** **04.08.2016**

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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
		Flame Visibility	Cl. 7 of IS: 15558:2005	Qualitative
		Gas Taps	Cl. 8 of IS: 15558:2005	Qualitative
		Flame Failure Device	Cl. 9 of IS: 15558 & Cl. 14 IS : 5116:2005	Qualitative
		Ignition Device	Cl. 10 of IS: 15558:2005	Qualitative
		Protection Against accidental over Heating	Cl. 11 of IS: 15558:2005	0.1-200°C
		Water Rate Adjuster	Cl. 12 of IS: 15558:2005	Qualitative
		Gas Soundness	Cl. 16 of IS: 5116:2005	0.02-1 kg/cm ²
		Water Soundness	Cl. 15 of IS: 15558:2005	0.2-7 kg/cm ²
		Thermal Efficiency	Cl. 16 of IS: 15558:2005	1-100 %
		Combustion	Cl. 17 of IS: 15558:2005	0.001-2.0
		Gas Consumption	Cl. 18 of IS: 15558:2005	1-2000 l/h
		Ignition & Flame Travel	Cl. 19 of IS: 15558:2005	Qualitative
		Flame Stability	Cl. 20 of IS: 15558:2005	Qualitative
		Noise Control	Cl. 21 of IS: 15558:2005	Qualitative

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		Flash Back	Cl. 22 of IS: 15558:2005	Qualitative
		Resistance to Draught	Cl. 23 of IS: 15558:2005	Qualitative
		Fire Hazard & Limiting Temperature	Cl. 23 of IS:5116:2005	1-1200°C
		Time for Temperature Rise	Cl. 25 of IS: 15558:2005	1s to 120 s
		Hot Water Output	Cl. 26 of IS: 15558, Ammendement:1	0.1-20/h
3.	Domestic Pressure Cooker	Capacity Test	Cl. 4 of IS : 2347	1-22 litre
		Fusible Plugs	Cl. 5.2 of IS : 2347	0.2-4 kg/cm ²
		Pressure Regulating Device	Cl. 5.5 of IS : 2347	Qualitative
		Vent Pipe	Cl. 5.7 of IS : 2347	Qualitative
		Spring	Cl. 5.8 of IS : 2347	Qualitative
		Vent Pipe Nut	Cl. 5.9 of IS : 2347	Qualitative
		Pressure Regulating Device	Cl. 6.1 of IS : 2347	Qualitative
		Safety Pressure Relief Device	Cl. 6.2 of IS : 2347	Qualitative
		Workmanship & finish	Cl.7.1&7.2 of IS 2347	Qualitative

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		Air Pressure Test	Cl. 8.1 of IS : 2347	0.02-1 kg/cm ²
		Proof Pressure Test	Cl. 8.2 of IS : 2347	0.2-2 kg/cm ²
		Operating Test for Pressure Regulating Device	Cl. 8.3 of IS : 2347	0.05-2 kg/cm ²
		Test for Safety Pressure Relief Device	Cl. 8.4 of IS : 2347	0.02-3 kg/cm ²
		Bursting Pressure Test	Cl. 8.5 of IS : 2347	0.2-6 kg/cm ²
		Test for Removal of Lid Under Pressure	Cl. 8.6 of IS : 2347	0.02-1 kg/cm ²
4.	Flexible Rubber Tube for L.P.G.	General	Cl. 4.1 of IS:10908	Qualitative
		Workmanship & Finish	Cl. 4.2 of IS:10908	Qualitative
		Dimension (Diameter)	Cl.4.3.1 of IS:10908	0.02-200 mm
		Dimension (Wall Thickness)	Cl.4.3.2 of IS:10908	0.02-200 mm
		Grip Strength Test	Cl.4.4 of IS:10908	Qualitative
		Pressure Test	Cl.4.5 of IS:10908	0.02-1 & 0.1-7 kg/cm ²
		Shore Hardness Test	Cl.4.6 of IS:10908	1-100° A

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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
		Accelerated Ageing Test	Cl.4.7 of IS:10908	1-200°C
		Flexibility Test	Cl.4.8 of IS:10908	Qualitative
		Crushing Test	Cl.4.9 of IS:10908	Qualitative
		Resistance to L.P.G. Test	Cl.4.10 of IS:10908	Qualitative
		Resistance to Ozone Test	Cl.4.11 of IS:10908	Qualitative
		Burning Behaviour Test	Cl.4.12 of IS:10908	Qualitative
5.	Rubber Hose for L.P.G.	Material	Cl.5.2 of IS : 9573 : 1928	Qualitative
		a. Lining		Qualitative
		b. Reinforcement		Qualitative
		c. Cover		Qualitative
		Dimension & Tolerances		
		a. Bore Size	4.2.1.2 of IS 443	0-50 mm
		b. Thickness of Lining Cover	4.2.2 of IS 443	0.02-200 mm
		c. Length	4.2.2 of IS 443	Qualitative
		Physical Requirements		
		a. Tensile Strength & Elongation at break of lining & cover of the Hose.	Cl.5 of IS : 443	1-2500 N 96 - 3000%
		b. Accelerated Ageing Test	Cl. 6 of IS 443	1-200°C
		c. Resistance of Lining to n-Pentane.	Cl 5.4.3 of IS 9573	Qualitative

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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
		Performance Requirements		
		a. Adhesion	Cl.6 of IS : 3400(Pt-24)	1-2500 N
		b. Low temp. Flexibility.	Cl.5.5.2 of IS 9573	30 - 40
		c. Flexibility of Hose.	Cl.5.5.3 of IS 9573	Qualitative
		d. Ozone Resistance	Cl.5.5.4 of IS 9573	Qualitative
		e. Proof Pressure Test	Cl.5.5.5 of IS 9573 & Cl. 8.3 of IS 443	Qualitative
		f. Burning pressure.	Cl. 8.2 of IS 443	Qualitative
		g. Electrical Continuity Test.	Cl.5.5.6 of IS 9573	Qualitative
		h. Grip Strength Test.	Cl.5.5.7 of IS 9573	Qualitative
		i. Burning Behavior.	Cl.5.5.8.2 of IS 9573	Qualitative
6.	General purpose Rubber Water Hose	Construction		
		a. Lining	Cl.4.1 of IS : 444	Qualitative
		b. Reinforcement		Qualitative
		c. Cover		Qualitative
		Dimension & Tolerances		
		a. Bore Size	Cl.4.2.1.2 of IS443	0-50 mm
		b. Lining & Cover Thickness	Cl.4.2.2 of IS 443	0.02-200mm
		c. Length	Cl.4.2.3 of IS 444	Qualitative
		Requirements		
		a. Tensile Strength & Elongation at break of lining & cover	Cl. 5 of IS : 443	1-2500 N 96- 3000%
		b. Accelerated Ageing Test	Cl. 6 of IS : 443	Qualitative
		c. Swelling Test	IS 3400 (Pt-6)	Qualitative

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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
		Performance Requirements		
		a. Adhesion	Method A of IS 3400(P-5)	1-2500 N
		b. Pressure Requirements	Cl.8 of IS : 443	2-100kg/cm ²
7.	Rubber Hose for Welding	Construction		
		a. Lining	Cl.3.1 of IS : 447-1988	Qualitative
		b. Reinforcement		Qualitative
		c. Cover		Qualitative
		Dimension & Tolerances		
		a. Bore Size		0-50 mm
		b. Lining & Cover Thickness	Cl.4.2.1.2 of IS443 Cl.4.2.2 of IS 443	0.02-200mm
		c. Length	Cl.4.2.3 of IS 443	Qualitative
		Physical Requirements		
		a. Tensile Strength & Elongation at break of lining & cover of the Hose.	Cl. 5 of IS : 443	1-2500 N 96 - 3000%
		b. Accelerated Ageing Test	Cl. 6 of IS : 443	Qualitative
		Performance Requirements		
		a. Hydraulic Test	Cl. 8.3 of IS : 443	2-100 kg/cm ²
		b. Busting Test	Cl. 8.2 of IS : 443	2-100 kg/cm ²
		c. Increase Diameter at working pressure	Cl. 8.5 of IS : 443	0.02-200mm
		d. Change in Length	Cl. 8.4 of IS : 443	0.02-200mm
		e. Adhesion between components	IS 3400(P-5)	1-2500 N

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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
8.	Rubber Air Hose	Construction		
		a. Lining	Cl.4.1 of IS : 446	Qualitative
		b. Reinforcement		Qualitative
		c. Cover		Qualitative
		Dimension & Tolerances		
		a. Bore Size	Cl.4.2.1.2 of IS443	0.50 mm
		b. Lining & Cover Thickness	Cl.4.2.2 of IS 443	0.02-200mm
		c. Length	Cl.4.2.3 of IS 443	Qualitative
		Physical Requirements		
		a. Tensile Strength & Elongation at break of lining & cover of the Hose.	Cl. 5 of IS : 443	1-2500 N 96 - 3000%
b. Accelerated Ageing Test	Cl. 6 of IS : 443	1-200 °C		
c. Oil Absorption Test	Cl. 4.3.3 of IS 446	Qualitative		
	Performance Requirements			
a. Adhesion	Cl.7 of IS : 3400(P-5)	1-2500 N		
b. Pressure Requirements	Cl. 8 of IS : 443	2-100 kg/cm ²		
9.	Rubber Hose for Fuel Dispensing	Construction		
		a. Lining	Cl. 3.1 of IS : 2396	Qualitative
		b. Reinforcement		Qualitative
		c. Cover		Qualitative
		Dimension & Tolerances		
		a. Bore Size	Cl.4.2.1.1 & Cl.4.2.1.2 of IS443	0-50 mm
b. Lining & Cover Thickness	Cl.4.2.2 of IS 443	0.02-200mm		
c. Length	Cl.3.2.3 of IS 2396	Qualitative		

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		Physical Requirements		
		a. Tensile Strength & Elongation at break of lining & cover of the Hose.	Cl. 5 of IS : 443	1-2500 N 96 - 3000%
		b. Accelerated Ageing Test	Cl. 6 of IS : 443	1-200 °C
		c. Volume Change		Qualitative
		d. Fuel soluble matter of lining	Cl. 9 of IS 443 App. A of IS 2396	Qualitative
		Performance Requirements		
		a. Hydraulic Proof Test	Cl. 8.3 of IS : 443	2-100 kg/cm ²
		b. Increase Diameter at proof pressure	Cl. 8.5 of IS : 443	1-50 kg/cm ²
		c. Twist at proof pressure	App. B of IS 2396	0-50 mm
		d. Busting Test	Cl. 8.3 of IS : 443	2-100 kg/cm ²
		e. Adhesion between components	IS 3400(P-5)	1-2500 N
		f. Electrical Continuity	Table-3 of IS 2396	Qualitative
10.	Rubber Gasket for Pressure Cooker	Material Test	Cl.3.1 of IS : 7466	Qualitative
		Workmanship & Finish	Cl.3.2 of IS : 7466	Qualitative
		Dimensions	Cl. 3.3 of IS : 7466	Qualitative

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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
		Requirements	Cl. 3.4	
		a. Hardness Test	IS:3400(Part-2)	30-1001 RHD
		b. Tensile Strength Test	IS:3400(Part-1)	1-2500 N
		c. Elongation Test	IS:3400(Part-1)	96 - 3000%
		d. After Ageing for 3 days – Hardness, Tensile Strength & Elongation at break test	IS:3400(Part-4)	1-200°C
		e. After Ageing for 8 hrs.- Hardness, Tensile Strength, Elongation & Volume Test.	IS:3400(Part-4)	1-200°C
		f. Compression Set Test	IS:3400(Part-10)	Qualitative
11.	Performance of Handles & Handle Assemblies Attached to Cookware	Construction	Cl. 4.1 of IS: 13395	Qualitative
		Materials	Cl. 4.2 of IS: 13395	Qualitative
		Selection & Size	Cl. 4.3 IS: 13395	1 – 300 mm
		Position with respect to cookware	Cl. 4.4 IS: 13395	1 – 300 mm
		Attachment to cookware	Cl. 4.5 of IS: 13395	0.5-50 Nm, 1-100°C
		Bending Strength	Cl. 5.2 of IS: 13395	1-500 N
		Torque Strength	Cl. 5.3 of IS: 13395	0.5-50 Nm
		Impact Strength	Cl. 5.4 of IS: 13395	Qualitative
		Fatigue Resistance	Cl. 5.5 of IS: 13395	1-9999R

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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
		Leakage	Cl. 5.6 of IS: 13395	1-300°C 1s-30 min.
		Thermal Insulation	Cl. 5.7 of IS: 13395	1-300°C 1 s-30 min.
		Washing Resistance	Cl. 5.9 of IS: 13395	1-300°C 1 s-30 min.
		Heat Resistance	Cl. 5.8 of IS: 13395	1-200°C , 1 s-30 min
		Burning Resistance	Cl. 5.10 IS: 13395	Qualitative
12.	SS Sink for Domestic Purpose	Thickness of Sheet / Strip	Cl. 6.1 of IS: 13983	1- 10 mm
		Depth of bowls	Cl. 6.2 of IS: 13983	1-1000 mm
		Internal Dia. Of Bowls	Cl. 6.3 of IS: 13983	1-1000 mm
		Bowl Locating limits	Cl. 6.4 of IS: 13983	0.02-200mm
		Coordinating size	Cl. 6.5 of IS: 13983	1-1000 mm
		Waste outlet	Cl. 7.4 of IS: 13983	1-1000 mm
		Tap holes	Cl. 7.5 of IS: 13983	1-1000 mm 0.02-200mm

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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
		Over flows	Cl. 7.6 of IS: 13983	0.02-200mm
		Construction & Workmanship	Cl. 7.2.1 of IS: 13983	1-50000x100 lux
13.	Plastic Flushing Cistern for Water Closets and Urinals	Cistern	Cl. 5.1 of IS : 7231	0.01-25 mm
		Cover	Cl. 5.2 of IS : 7231	Qualitative
		Flush Pipe	Cl. 5.3 of IS : 7231	0.02-200mm
		Inlet & over flow holes	Cl. 5.4 of IS : 7231	0.02-200mm
		Operating Mechanism	Cl. 5.6 of IS : 7231	1-600 mm
		String (Chain)	Cl. 5.7 of IS : 7231	1g-50 kg
		Over flow pipe	Cl. 5.8 of IS : 7231	0.02-200mm
		Finish	Cl. 6 of IS : 7231	Qualitative
		Flushing Arrangement	Cl. 7.1 of IS : 7231	Qualitative
		Working water level	Cl. 7.2 of IS : 7231	Qualitative
		Freedom from self siphonage	Cl. 7.3 of IS : 7231	Qualitative
		Reduced water level	Cl. 7.5 of IS : 7231	Qualitative
		Discharge capacity	Cl. 7.6 of IS : 7231	1-1000 ml

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		Discharge rate	Cl. 7.7 of IS : 7231	1-1000 ml
		Distortion resistance test	Cl. 8.1 of IS : 7231	0.02-200 mm
		Dead Load Test & Front Thrust Test	Cl. 8.2 & 8.3 of IS : 7231	23 kg & 1 kg 1s-30 min.
		Impact Test	Cl. 8.4 of IS : 7231	1-1000 mm
		Endurance Test	Cl. 9.3 of IS : 7231	1-99999 Count

-X-X-X-X-X-X-X-X-X-X-X-