



Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

CAB Name: ADS LABTECH
Address: 39/2 10- A, Sahibabad Industrial Area Site-4,
Sahibabad, Ghaziabad-201010 Uttar Pradesh.
Certificate No.: T-0018

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Issue date : 23.07.2025
Validity : 22.07.2029
Amendment date: N/A

Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
Discipline: Mechanical; Group: Metals & Alloys					
1.	Ferrous Materials, Alloys and Products High Strength Deformed Steel Bars	Tensile Strength	100 N/mm ² to 1500N/mm ²	IS:1608(Part-1)	Permanent
2.	And Wires	Yield Strength	100N/mm ² to 1200 N/mm ²	IS:1608(Part-1)	Permanent
3.	(As per IS:	0.2% Proof Stress	100N/mm ² to 1200 N/mm ²	IS:1608(Part-1)	Permanent
4.	1786-2008)	Elongation	2.0 to 70.0%	IS:1608(Part-1)	Permanent
5.		Nominal Mass(Kg/Meter)	0.025-20 kg/m	IS:1786	Permanent
6.		Bend Test	Qualitative Mandrel dia 12,16 20, 24, 30,32,36,40,48,50,60,64, 70, 75,80,96,100,120,125,128, 140,160, 200mm	IS:1599	Permanent
7.		Rebend Test	Qualitative (Mandrel dia 12,16 20, 24, 30,32,36,40,48,50,60,64, 70,75,80,96,100,120,125, 128,140,160, 200,224mm)	IS:1786	Permanent



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8.		Requirements for Bond i) Rib Area(mm ² /mm)	0.32to 8.00 mm ² /mm	IS:1599	Permanent
9.		Requirements for Bond ii) Pull out Test	0.5-25 N/mm ²	IS: 2770(Part-1)	Permanent
10.		Surface Defects Test	Qualitative	IS: 1786	Permanent
11.	Steel Tubes/ Pipes for Structural and General Engineering Purposes (IS: 1239 Part-1 & Part-2 / IS: 3601 / IS:1161)	Dimensions(mm) Outer diameter	1.0 to 600.0 mm	IS: 1239(Part-1) IS: 1239(Part-2) IS: 3601 IS:1161	Permanent
12.		Mass(kg/m)	0.025 to 250 kg/m	IS: 1239(Part-1) IS: 3601 IS:1161	Permanent
13.		Tensile Strength (N/mm ²)	100-600N/mm ² (1N/mm ²)	IS:1608(Part-1)	Permanent
14.		Yield Strength (N/mm ²)	100-600N/mm ² (1N/mm ²)	IS:1608(Part-1)	Permanent
15.		Elongation (%)	2.0% to 70.0%	IS:1608(Part-1)	Permanent
16.		Flattening Test	Qualitative	IS: 2328	Permanent
17.		Bendtest	Qualitative Mandrel dia 12,16 20, 24, 30,32,36,40,48,50,60,64, 70, 75,80,96,100,120,125,128, 140,160, 200 mm	IS: 2329 IS: 3601	Permanent
18.		Drift Expansion Test	Qualitative	IS: 2335	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
19.		Dimensions(mm) Wall Thickness	1 mm-60 mm	IS: 1239(Part-1) IS: 1239(Part-2) IS: 3601 IS:1161	Permanent
20.	Steel Tubes/ Pipes for Structural and General Engineering Purposes (IS: 1239 Part-1 & Part-2 / IS: 3601 / IS:1161)	Workmanship	Qualitative	IS:1239(P-1) IS:1239(P-1) IS:1239(P-1)	Permanent
21.		Height of the internal weld fin	0.1 mm- 10 mm	IS:1239(P-1)	Permanent
22.		Crushing Test	Qualitative	IS: 3601	Permanent
23.		Leak Proof Test	Qualitative	IS: 1239(Part-1)	Permanent
24.		Straightness	0.03-10mm	IS:3601	Permanent
25.		Workmanship	NA	IS: 3601	Permanent
26.		Outside Diameter, mm	1 mm to 600mm 1 mm to 600mm	IS:3601 IS:1161	Permanent
27.		Height of internal fin	0.1 mm -10.0mm	IS:3601	Permanent
28.		Straightness	0.05 mm -5.0mm	IS:1161	Permanent
29.		Workmanship	NA	IS:1161	Permanent
30.		Oiling and Painting	NA	IS:1161	Permanent
31.		Surface Protection	NA	IS:3601	Permanent
32.	Mild Steel Bars and wires for General Engineering Purposes IS:280/IS:279/IS:432 (P-1& P-2 /IS:1785(P-1 & P-2)/IS:7887	Dimensions (mm)	0.1 to 60.0 mm	IS: 280 IS: 279 IS: 432(Part-1)	Permanent
33.			2.00 mm to 15.0mm	IS: 432(Part-2)	Permanent
34.			2.00 mm to 10.0mm	IS: 1785(Part-1)	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
35.			2.00 mm to 6.00mm	IS: 1785(Part-2)	Permanent
36.			4.00 mm to 40.0mm	IS: 7887	Permanent
37.			Tensile Strength (N/mm²)	100-1000N/mm2	IS:1608(Part-1)
38.		Yield Strength/Proof Stress(N/mm²)	100-1000N/mm2	IS:1608(Part-1)	Permanent
39.	Mild Steel Bars and wires for General Engineering Purposes IS:280/IS:279/IS:432 (P-1& P-2 /IS:1785(P-1 &P-2)/IS:7887	Elongation (%)	2.0 % to 70.0 %	IS:1608(Part-1)	Permanent
40.		Wrapping Test	Qualitative	IS: 1755	Permanent
41.		Bend Test	Qualitative (Mandrel dia 12,16 20, 24,30,32,36,40 48,50,60,64,70,75,80,96, 100,120,125,128,140,160 , 200 mm)	IS: 280 IS:1599	Permanent
42.		Mass(kg/meter)	0.1 to 20 kg/m 0.1 to 250 kg/m 0.1 to 20 kg/m	IS: 432(Part-1) IS:1732 IS: 279	Permanent
43.		Freedom from defect	Qualitative	IS:280 IS:432(P-II,III)	Permanent
44.		Out of shape	0.01 mm - 10 mm	IS:7887	Permanent
45.		Maximum Difference between two reading taken on any two diameter on the area section, mm	By Difference	IS:280	Permanent



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46.		Reverse bend	Qualitative	IS:1716	Permanent
47.		Maximum difference between two reading of diameter on the cross section mm	0 mm - 0.5mm	IS:280	Permanent
48.	Hot Rolled Medium and High Tensile Structural Steel as per IS: 2062 (IS: 808/ IS: 1079/ IS: 1173/ IS: 1732/ IS: 1730/ IS: 1852/ IS: 1875/ IS: 2831/ IS: 3954/ IS: 10748/ IS: 11513/ IS: 15647/ IS: 5986/	Dimensions (mm) Thick	0.1 to 600.0 mm	IS: 808 IS: 1079 IS: 1173 IS: 1730 IS: 1732 IS: 1852 IS: 1875 IS: 3954 IS: 11513 IS: 15647 IS: 10748 IS: 2062	Permanent
49.	IS: 5872/	Mass (kg/metre)	0.025 to 250.0 kg/m	IS: 2062 IS:3954 IS: 808 IS: 10748 IS: 1079	Permanent
50.	IS: 6240	Tensile Strength (N/mm ²)	100-1500 N/mm ²	IS: 1608(Part-1)	Permanent
51.		Yield Strength (N/mm ²)	100-1200 N/mm ²	IS: 1608(Part-1)	Permanent
52.		Elongation, %	2.0 % to 70.0%	IS: 1608 (Part-1)	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
53.		Dimension (a) Depth of Beam	10-300mm	IS: 2062	Permanent
54.		(b) Flange width of beam, mm	10-300mm		Permanent
55.		(c) Thickness of flange Beam, T	0.1-25.0		Permanent
56.		(d) Thickness of web Beam, t	0.1-25.0		Permanent
57.	Hot Rolled Medium and High Tensile Structural Steel as per IS: 2062 (IS: 808/ IS: 1079/ IS: 1173/ IS: 1732/ IS: 1730/ IS: 1852/ IS: 1875/ IS: 2831/ IS: 3954/ IS: 10748/ IS: 11513/ IS: 15647/ IS: 5986/ IS: 5872/ IS: 6240	(e) Root Radius, R1	1-25mm		Permanent
58.		(f) Toe Radius, R2	1-25mm		Permanent
59.		(g) Camber % of length	0.02-1.0		Permanent
60.		(h) Diameter	0.1-100mm		Permanent
61.		(i) Ovality	0.1-5mm		Permanent
62.		(j) Leg A	10-300mm		Permanent
63.		(k) Leg B	10-300mm		Permanent
64.		(l) Out of Square °	85-100°		Permanent
65.		(m) Difference between leg length, mm	0.1-20mm		Permanent
66.		Bend Test	Qualitative	IS: 1599	Permanent
67.		Charpy Impact Test	5 to 100 Joule	IS: 1757(P-1)	Permanent
68.		Cupping Test	0 to 25 mm	IS: 10175	Permanent
69.		Hardness Rockwell (B)	20 HRB to 100 HRB	IS: 1586(Part-1)	Permanent
70.		Hardness Rockwell (C)	20 HRC to 70 HRC	IS: 1586(Part-1)	Permanent
71.		Freedom from	Qualitative	IS: 2062	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
				IS:10748 IS:1079 IS:11513 IS:5986 IS: 2831 IS:15647	
72		Macrographic Examination (SulphurPrint Test)	Qualitative	IS: 12037	Permanent
73		Macrotech Test	Qualitative	IS: 11371	Permanent
74		Crown	By calculation	IS:11513	Permanent
75		Edge Camber	0.2 mm – 50mm	IS:11513	Permanent
76		Difference in thickness across width of the two edge	By calculation	IS:11513	Permanent
77		Width	10 mm -2000 mm	IS:10748 IS:1079 IS:1730	Permanent
78	Galvanized Steel Barbed Wire For Fencing (IS: 278)	Diameter of wire (mm)	0.1 to 600 mm	IS: 278	Permanent
79		Mass(g/m)	50.0 to 300.0 g/m	IS: 278	Permanent
80		Distance Between Two Barbs	0.1 mm -200 mm	IS: 278	Permanent
81		No. of Lays Between the Two Consecutive Barbs	Record	IS: 278	Permanent
82		Tensile strength (N/mm ²)	100 to 800N/mm ²	IS:1608(Part-1)	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
83		Breaking Load (kN)	0.5 kN to 10.0kN	IS:1608(Part-1)	Permanent
84		Ductility Test	Qualitative	IS: 1755	Permanent
85	Galvanized Steel Sheets & Strips (Plain & Corrugated) (IS: 277)	Dimensions(mm) Thickness Width	0.1 mm to 5.0 mm 20.0 mm to 600 mm	IS: 277	Permanent
86		Mass	0.1 to 60 kg	IS: 277	Permanent
87		Tensile Strength (N/mm ²)	100-600N/mm ²	IS:1608(Part-1)	Permanent
88		Yield Strength (N/mm ²)	100-600N/mm ²	IS:1608(Part-1)	Permanent
89		Elongation (%)	2.0 % to 70.0 %	IS:1608(Part-1)	Permanent
90		Bend Test	Qualitative (2, 3, 4, 5, 6, 7, 8, 9, 10, 11,12 mm)	IS: 277	Permanent
91		Number of Corrugations	Record	IS: 277	Permanent
92		Surface Roughness	0.1µm -10.0 µm	IS: 277	Permanent
93		Freedom from Defect Test	Qualitative	IS: 277	Permanent
94		Surface Finish	NA	IS: 277	Permanent
95		Coating	Qualitative	IS: 277	Permanent
96	Mild Steel For Metal Arc Welding Electrodes (IS:2879)	Dimensions (mm)	0.1mm to 50.0 mm	IS: 2879	Permanent
		Diameter	50.00 mm - 600.0mm		
		Length			



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
97	Steel Tubes Used for Water Wells (IS: 4270)	Dimensions	1.0 mm to 50.0 mm	IS: 4270	Permanent
		Thick	20.0 mm to 600.0 mm		
		Dia			
98		Tensile Strength (N/mm ²)	100-1500N/mm ² (1N/mm ²)	IS:1608(Part-1)	Permanent
99		Yield Strength (N/mm ²)	100-1200N/mm ² (1N/mm ²)	IS:1608(Part-1)	Permanent
100		Elongation (%)	2.0 % to 70.0%	IS:1608(Part-1)	Permanent
101		Mass(kg/m)	0.5 kg/m to 250.0 kg/m	IS: 4270	Permanent
102		Flattening Test	Qualitative	IS: 2328	Permanent
103		Hydrostatic Test	Qualitative	IS: 4270	Permanent
104		Straightness	0.03 mm - 10mm	IS: 4270	Permanent
105		Workmanship	Qualitative	IS: 4270	Permanent
106		Thickness	1.0 mm to 50.0 mm	IS:4270	Permanent
107		Pipe/End/Tube	Qualitative	IS:4270	Permanent
108		Angle of Beveled Edge.	30 ° - 50°	IS:4270	Permanent
109		Root Face of Beveled Edge	0.8 mm - 2.4mm	IS:4270	Permanent
110		Height of inner weld fin.	0.1 mm - 10mm	IS:4270	Permanent
111		Coating Test	Qualitative	IS:4270	Permanent
112		Vicker Hardness , HV	20-500 HV	IS: 1501(Pt-1)	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
113	Carbon Steel Cast Ingots, Billets, Blooms and Slabs (IS: 14650 /IS: 2830)	Dimensions (mm)	0.1 mm to 50.0 mm	IS: 14650	Permanent
		(Thickness)	50.0 mm to 200.0mm	IS: 2830	
114		Bend Test	0.02 mm -50 mm	IS: 2830	
115		Camber	0.1 mm -50mm	IS: 2830	
116		Macrographic Examination(Sulphur Print Test)	Qualitative	IS: 2830	
117		Macrotech Test	Qualitative	IS: 11371	
118		Freedom From Defect	Qualitative	IS 2830	Permanent
119	Stainless Steel Plate, Sheet, Strip, Wire & Rods (IS: 15997/ IS: 6911/ IS: 5522/ IS:6527 / IS:6528 / IS:6603) IS:4454(Pt-4)2001	Thickness	0.1mm to 50.0mm	IS: 5522	Permanent
120		Thickness	4 mm - 200mm	IS: 6603	
121		Diameter	4 mm - 25mm	IS: 6527	
122		Diameter	0.1 mm -10mm	IS: 6528	
123	Stainless Steel Plate, Sheet, Strip, Wire & Rods (IS: 15997/ IS: 6911/	Diameter of wire	0.1 mm -20mm	IS:4454(Pt-4)	Permanent
124		Width	20 mm -1000mm	IS:5522 IS:6911 IS:15997	Permanent



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125	IS: 5522/	Tensile Strength (N/mm ²)	100-2500N/mm ²	IS:1608(Part-1)	Permanent
126	IS:6527 /	Yield Strength (N/mm ²)	100-1500N/mm ²	IS:1608(Part-1)	Permanent
127	IS:6528 /	Elongation (%)	2.0 % to 70.0%	IS:1608(Part-1)	Permanent
128	IS:6603)	Erichsen Cupping Test	5.0 mm to 25mm	IS: 10175	Permanent
129	IS:4454(Pt-4)2001	Hardness Rockwell B	20HRB to 100HRB	IS: 1586(Part-1)	Permanent
130		Hardness Rockwell C	20HRC to 70HRC	IS: 1586(Part-1)	Permanent
131		Bend Test	Qualitative	IS:1599	Permanent
132		Torsion Test	Qualitative	IS: 1717	Permanent
133	Stainless Steel Plate, Sheet, Strip, Wire & Rods (IS: 15997/ IS: 6911/ IS: 5522/ IS:6527 / IS:6528 / IS:6603) IS:4454(Pt-4)2001	Reversion Torsion	Qualitative	IS:12261	Permanent
134		Freedom from defect	Qualitative	IS: 4454(pt-4) IS: 5522 IS :6911 IS: 15997 IS: 6528	Permanent
135		Reduction in Area	By Calculation	IS 6528	Permanent
136		Corrosion Resistance (Bend of Flattening)	Qualitative	IS 10461 (P-2)	Permanent
137		Cast of the wire	Qualitative	IS:4454(Pt-4)	Permanent
138		Cast of the wire	Qualitative	IS:4454(Pt-4)	Permanent
139		Bend Test	Qualitative	IS:4454(Pt-4)	Permanent
140		Coiling Test	Qualitative	IS:4454(Pt-4) IS: 15997	Permanent
141		Surface Finish	Qualitative	IS: 6911 IS: 5522	Permanent
142		Diameter	4 mm -200mm	IS:6603 IS:6603	Permanent
143		Out of round	By calculation	IS:6603/IS:6528	Permanent



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144	Stainless Steel Plate, Sheet, Strip, Wire & Rods (IS: 15997/ IS: 6911/ IS: 5522/ IS:6527 / IS:6528 / IS:6603) IS:4454(Pt-4)2001	Variation in Straightness	0.1 mm - 5mm	IS:6603	Permanent
145		Freedom from defects	Qualitative	IS:6528/IS:15997 IS:6911	Permanent
146		Dimension(Out of round)	By calculation	IS:6528	Permanent
147		Variation in Straightness	0.1 mm -5mm	IS:6603	Permanent
148		Freedom from defects	Qualitative	IS:6528 /IS:15997	Permanent
149		Dimension(Out of round)	By calculation	IS:6528	Permanent
150		Reverse Bend (90°bend in alternative Direction)	Qualitative	IS:1716	Permanent
151		Camber	0.1 mm -10mm	IS:5522 IS:6911	Permanent
152		Flatness	Qualitative	IS:15997	Permanent
153		Camber	Qualitative	IS:15997	Permanent
154		Flatness	Qualitative	IS:15522/IS:6911	Permanent
155		Coating and Surface Finish	Qualitative	IS: 4454(Pt-1)	Permanent
156		Coiling and stretching	Qualitative	IS: 4454(Pt-1) IS: 4454(Pt-2)	Permanent
157	Stainless steel seamless and welded pipe& Tubes IS: 17875-2022/IS: 1786-2022	Flange Test	Qualitative	IS: 17876 IS:2330	Permanent
158		Flattening Test	NA	IS:2328	Permanent
159		Reverse Flattening Test	Qualitative	IS:17876	Permanent
160		Flaring Test	NA	IS:17875	Permanent
161		Workmanship	Qualitative	IS: 17875 IS: 17876	Permanent
162		Finish	NA	IS: 17875 IS: 17876	Permanent



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163	Stainless steel seamless and welded pipe& Tubes IS: 17875-2022/IS: 1786-2022	Appearance	Qualitative	IS: 17875 IS: 17876	Permanent
164		Dimension & Tolerances (a) Outside Diameter Pipes /Tubes (b) Wall Thickness Pipes/Tubes	2-2000mm 1-15mm	IS: 17875 IS: 17876 IS: 17875 IS: 17876	Permanent
165		Tensile strength	100 N/mm2 -1500N/mm2	IS 1608(pt-1)	Permanent
166		Yield strength	100 N/mm2 -1200N/mm2	IS 1608(pt-1)	Permanent
167		Elongation	2 % - 70%	IS 1608(pt-1)	Permanent
168	Stainless steel seamless and welded pipe& Tubes IS: 17875-2022/IS: 1786-2022	Hardness Test Rockwell C	20-70	IS: 1586(pt-1)	Permanent
169		Hardness Test Rockwell B	20-100	IS: 1586(pt-1)	Permanent
170		Leak Tightness Test	Qualitative	IS: 17875 IS: 17876	Permanent
171		Corrosion Test	Qualitative	IS: 10461(Pt-2)	Permanent
172		Repair by welding or grinding	Qualitative	IS: 17875 IS: 17876	Permanent
173	Cast Iron/ Ductile Iron Pipes (IS: 1536/ IS:1729/ IS:8329)	Deviation from Straightness	Qualitative	IS: 17875 IS: 17876	Permanent
174		Dimensions(mm) Thickness Outer diameter	0.1 mm -25mm 0.1 mm to 600.0 mm	IS: 1536 IS: 1729 IS: 8329	Permanent
175		Mass(kg/metre)	0.5 kg/m to 250.0 kg/m	IS: 1536 IS: 1729	Permanent



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				IS: 8329	
176		Tensile Strength (N/mm ²)	100-1500N/mm2	IS:1608(Part-1)	Permanent
177	Cast Iron/ Ductile Iron Pipes (IS: 1536/ IS:1729/ IS:8329)	Yield Strength (N/mm ²)	100-1200N/mm2 (1N/mm ²)	IS:1608(Part-1)	Permanent
178		Elongation (%)	2.0 % to 70.0%	IS:1608(Part-1)	Permanent
179		Ring Test(N/mm ²)	100-1500N/mm2	IS: 1536	Permanent
180		Hammer Test	Qualitative	IS: 1729	Permanent
181	Strand Wire (IS: 14268)	Dimensions (mm)Dia	01 mm to 50.0mm	IS :14268	Permanent
182		Mass (kg/km)	100 kg/km to 1500 kg/km	IS:14268	Permanent
183		Breaking Strength(kN)	10 kN to 500kN	IS:1608(Part-1)	Permanent
184		0.2%Proof Load	10 kN to 500kN	IS: 14268	Permanent
185		Elongation (%)	1.0 % to 50.0%	IS:1608(Part-1)	Permanent
186	Aluminium- Zinc Alloy	Dimensions (mm) (thickness)	0.1 mm to 50.0 mm	IS:15961	Permanent
187	Metallic Coated Steel	Tensile Strength(N/mm ²)	100 N/mm2 -700N/mm2	IS: 1608(Part-1)	Permanent
188	Strip And Sheet(IS:15961)	Yield Strength (N/mm ²)	100-500N/mm2 (1N/mm ²)	IS: 1608(Part-1)	Permanent
189		Elongation (%)	2.0 to 70.0%	IS:1608(Part-1)	Permanent
190		Coating Adhesion Test	Qualitative	IS: 15961	Permanent
191	S.S. Sink	Marking	Qualitative	IS: 13983	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
192	for Domestic	Type	Qualitative	IS: 13983	Permanent
193	purposes IS:	Thickness of strip /Sheet	0.01 mm -2mm	IS: 13983	Permanent
194	13983-1994	Depth of bowl	0.01 mm -500mm	IS: 13983	Permanent
195		Internal dimensions of bowl	0.01 mm-500mm	IS: 13983	Permanent
196		Bowl locating limits	5 mm -50mm	IS: 13983	Permanent
197		(a) Distance b/w edge of sink and end of bowl sink	1mm -20mm	IS: 13983	Permanent
198		(b) Depth of collar	5 mm-50mm	IS: 13983	Permanent
199		(c) Distance b/w edge of sink bowl and front of the sink	5 mm-400mm	IS: 13983	Permanent
200		(d) Coordinating sizes	Qualitative	IS: 13983	Permanent
201		(e) Construction &	Qualitative	IS: 13983	Permanent
202	S.S. Sink for Domestic purposes IS: 13983-1994	Workmanship	1 mm -50mm	IS: 13983	Permanent
		(f) Waste Outlet		IS: 13983	
203			10 mm -200mm	IS: 13983	Permanent
				IS: 13983	
204		Tap Holes	0.1 mm -100mm	IS: 13983	Permanent
		(a) Diameter	1 mm -20mm	IS: 13983	
		(b) Distance b/w centre holes	Qualitative	IS: 13983	Permanent
205		Over flows		IS: 13983	Permanent
		(a) Horizontal Dimension	1 mm -100mm	IS: 13983	
206		(b) Vertical height	1 mm -20mm	IS: 13983	Permanent
207		(c) Area Finish	Qualitative	IS: 13983	Permanent
208	Cold formed Welded Carbon	Depth of Section (mm)	10.0 mm to600.0 mm	IS:18573	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
209	Steel Square and Rectangular Hollow Section (IS:18573-2024)	Width of Section (mm)	10.0 mm to 600.0 mm	IS:18573	Permanent
210		Thickness (mm)	1.0 mm to 50.0 mm	IS:18573	Permanent
211		Tensile Strength (N/mm ²)	100 to 600 N/mm ²	IS:1608(Part-1)	Permanent
212		Yield Strength (N/mm ²)	20 N/mm ² – 600 N/mm ²	IS:1608(Part-1)	Permanent
213		Elongation (%)	2.0 % to 100.0 %	IS:1608(Part-1)	Permanent
214		Mass (Kg/metre)	1.0 kg/m to 150.0 kg/m	IS:18573	Permanent
215		Concavity and convexity	0.01-10mm/lc 0.01mm	IS:18573	Permanent
216		Squareness	0-20° /lc 5 min	IS:18573	Permanent
217		Straightness and twist	0.01-50mm/lc 0.01mm	IS:18573	Permanent
218		External Corner Radius	1mm - 40mm	IS:18573	Permanent
219		Oiling and Painting	Qualitative	IS:18573	Permanent
220		Height of Internal weld fin	0.1 mm -10mm	IS:18573	Permanent
221	Coupler	Slip Test	0.01 mm -10mm	IS: 16172	Permanent
222		Tensile	100 N/mm ² -1000 N/mm ²	IS: 1608(Pt-1)	Permanent
223		Elongation	0.5 %-50 %	IS: 1608(Pt-1)	Permanent
224	Cold Reduced Carbon Steel Sheet & Strip {IS: 513(Part-	Dimensions (mm) Thick	0.1 mm to 10.0mm	IS: 513(Part-1)	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
	1 & Part-2}} IS: 17404-2020				
225		Length	10 mm to 600mm	IS:513(Part-2)	Permanent
226		Width	50 mm -2000mm	IS: 513(Part-1)	Permanent
227		Tensile Strength (N/mm ²)	100 N/mm ² -1000 N/mm ²	IS:1608(Part-1)	Permanent
228		YieldStrength	100 N/mm ² -1000N/mm ²	IS:1608(Part-1)	Permanent
229		Elongation (%)	2.0 % to 70.0%	IS:1608(Part-1)	Permanent
230		BendTest	Qualitative	IS: 1599	Permanent
231		CuppingTest	5 mm to 25mm	IS: 10175	Permanent
232		Hardness Test	20 to 100	IS: 1586 (Part-1)	Permanent
233		Freedom from defects	Qualitative	IS:513(Pt-2)	Permanent
234		Surface finish	Qualitative	IS:513(Pt-2)	Permanent
235		Oiling	Qualitative	IS:513(Pt-2)/IS:513(P-1)	Permanent
236		Tensile Strength	100 - 2500(N/mm ²)	IS: 1608(Part-1)	Permanent
238	Steel Wire (IS:4824-2022)/ IS: 4454(Pt-I, II)/IS: 4223-1975/IS 6902-1975	Torsion Test	Qualitative	IS:1717	Permanent
239		Surface Quality	Qualitative	IS:4824	Permanent
240		Straightness	Qualitative	IS:4824 IS: 4223	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
241		Dimensions (mm) Diameter	0.1 mm -5.0mm	IS:4824/ IS: 4454(Pt-I,II)	Permanent
242		Protective Coating	Qualitative	IS:4824	Permanent
243		Freedom from defect	Qualitative	IS: 4454(pt-1) IS: 4223IS:4454(Pt-2)	Permanent
244		Out of Roundness	Qualitative	IS:4824	Permanent
245		Wrapping	Qualitative	IS:1755	Permanent
246		Bend Test	Qualitative	IS:4454 (pt-1)	Permanent
247		Coiling & Stretching Test	Qualitative	IS:4454 (pt-1)/ IS 4454(pt-2)	Permanent
248		Difference b/w two maximum and minimum diameter	0.001 mm -0.5mm	IS: 4454(Pt-1)	Permanent
249		Cast of the wire	Qualitative	IS:4454 (pt-1)	Permanent
250		Deflection test	Qualitative	IS 4454(pt-2)	Permanent
251		Bend test	Qualitative	IS: 4223	Permanent
252		Freedom from defect	Qualitative	IS: 6902 /IS: 4454(Pt-1,Pt-2)	Permanent
253	Bright Steel Bars IS:9550-2001	Dimension (a) Diameter	0.5 mm to 300mm	IS: 6902 IS:9550	Permanent
254		(b) Thickness	0.5 mm to 300mm	IS:9550	Permanent
255		Straightness	0.1 mm -5.0mm	IS:9550	Permanent
256		Out of shape	Qualitative	IS:9550	Permanent
257		edges of non round bar	Qualitative	IS:9550	Permanent
258	Tool & Die Steel IS:3748-1990	Freedom from defect	Qualitative	IS:3748	Permanent
259		Dimensions (a)Thickness	0.05 mm to 50mm	IS:3748	Permanent

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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
260		(b)Width	0.1 mm to 600mm	IS:3748	Permanent
261		(c)Straightness	0.05 mm/m - 5.0mm/m	IS:3748	Permanent
262		Macro Etch test	Qualitative	IS: 11371	Permanent
263	Carbon Chromium Steel IS:4398	Hardness Rockwell (HRB)	20 to 100	IS: 1586(P-1)	Permanent
264		Hardness Rockwell(HRC)	20 to 70	IS:1586 (P-1)	Permanent
265		Macro Etch Test	Qualitative	IS:11371-2022	Permanent
266		Dimensions (mm) (a) Thickness (b) Straightness	0.1-600mm 0.03-1mm	IS:4398 IS:4398	Permanent
267	Cold-Rolled Medium, High Carbon and Low Alloy	Hardness Rockwell(HRB)	20 to 100 HRB	IS: 1586(P-1)	Permanent
268	steel strip	Hardness Rockwell(HRC)	20 to 70 HRC	IS:1586 (P-1)	Permanent
269	IS:7226-1974	Freedom from defect	Qualitative	IS:7226	Permanent
270		Thickness	0.10 mm to 5.0 mm	IS:7226	Permanent
271		Width	1.0 mm to 50 mm	IS:7226	Permanent
272		Camber	0.1mm to 20 mm	IS:7226	Permanent
273		Surface finish	Qualitative	IS:7226	Permanent
274	Steel for cold Heading/	Diameter	1.0 mm to 300mm	IS:11169(Pt-1)	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
	cold extrusion application. IS:11169(pt-1)2022				
275		Tensile Strength	100 N/mm ² to 1500 N/mm ²	IS:1608-(Pt-1)	Permanent
276		0.2% proof Strength	100 N/mm ² to 1200 N/mm ²	IS:1608-(Pt-1)	Permanent
277		Elongation (%)	2.0 % to 70%	IS:1608-(Pt-1)	Permanent
278		Freedom from defect	NA	IS 11169(pt-1)	Permanent
279	Steel for Die blocks IS:5518-1996	Freedom From Defect	Qualitative	IS:5518	Permanent
280		Dimensions (mm)	5 mm – 600mm	IS:5518	Permanent
281		Macro Etch Test	Qualitative	IS:11371	Permanent
282		Freedom From Defect	Qualitative	IS:5518	Permanent
284	Steel Chequered Plates	Dimensions (mm) (a) Thickness	0.1 – 20 mm	IS: 3502	Permanent
285		(b)Width	0.1 to 600.0 mm	IS: 3502	Permanent
286		(c) Chequered Height	0.5-2.0mm	IS: 3502	Permanent
287		Mass (kg/M)	0.1 to 60 kg/m	IS: 3502	Permanent
288		Tensile Strength (N/mm ²)	100-1500N/mm ²	IS:1608(Part-1)	Permanent
289		Yield Strength (N/mm ²)	100-1200N/mm ²	IS:1608(Part-1)	Permanent
290		Elongation (%)	2.0 to 70.0 %	IS:1608(Part-1)	Permanent
291		Bend Test	Qualitative	IS: 1599	Permanent
292	Ferrous & non ferrous product	Vickers Hardness	20-500 HV	IS: 1501(Pt-1)	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
293	Other Non-Ferrous Metals,	Dimensions(mm)	0.1 mm to 600.0 mm	IS: 6477/ IS: 2673	Permanent
294		Thickness			
295	Alloys and	Diameter	0.1 mm to 600.0 mm	IS: 2673	Permanent
296	Products	Thickness	0.1 mm to 600.0 mm	IS: 2676	Permanent
297	Aluminium Alloy Bars, Rods,	Thickness	0.1 mm to 600.0 mm	IS: 2677	Permanent
299	Sheets, Plates,	Diameter	0.1 mm to 600.0 mm	IS: 2678	Permanent
300	Strips, Tubes	Width	0.1 mm to 300mm		Permanent
301	and Sections	Thickness	0.1 mm to 600mm		Permanent
302	(IS: 733/IS:	Length	0.1 mm to 300mm	IS: 3965	Permanent
303	737/ IS: 738/	Diameter	0.1 mm to 300mm	IS: 3965	Permanent
304	IS:1285)	Tensile Strength (N/mm ²)	50 N/mm ² -800 N/mm ²	IS:1608(Part-1)	Permanent
305		0.2% Proof Stress (N/mm ²)	50 N/mm ² -1200N/mm ²	IS:1608(Part-1)	Permanent
306		Elongation (%)	2.0 % to 70.0%	IS:1608(Part-1)	Permanent
307		Flattening Test	Qualitative	IS: 2328	Permanent
308		Bend Test	Qualitative	IS: 1599	Permanent
309	Cast Aluminum and its Alloys	Freedom From Defect	Qualitative	IS: 737 IS:617	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
	Ingots and Castings				
310	Copper Materials, Alloys and Products Copper & Copper Alloys Sheets, Strips, Rods, Bars, Wires, Ingots & Castings (IS: 292/ IS: 304/ IS: 306/ IS: 318/ IS: 319/ IS: 320 / IS: 407/ IS: 410/ IS: 422)	Dimensions(mm)			
311		Length	0.1mm to 50.0 mm	IS: 2826	Permanent
312		Diameter	20.0 mm to 600.0 mm	IS: 2826	Permanent
313		Length	20.0 mm to 600.0mm	IS: 3052	Permanent
314		Diameter	0.2mm to 400mm	IS: 5493	Permanent
315		Thickness	0.2 mm to 25mm	IS: 5493	Permanent
316		Thickness	0.1 mm to 50 mm	IS: 191	Permanent
317		Width	20.0 mm to 600mm	IS: 191	Permanent
318		Thickness	0.1 mm to 50.0mm	IS: 3052	Permanent
319		Mass	0.1 kg to 60 kg	IS: 422	Permanent
320		Tensile Strength (N/mm ²)	50 N/mm ² - 700 N/mm ²	IS: 1608(Part-1)	Permanent
321		Yield Strength (N/mm ²)	50 N/mm ² - 600 N/mm ²	IS: 1608(Part-1)	Permanent
322		Elongation (%)	2.0 % to 70.0%	IS: 1608(Part-1)	Permanent
323		Drifting Test	Qualitative	IS: 407	Permanent
324		Flattening Test	Qualitative	IS: 407	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
325		Double Bend Test	Qualitative	IS: 407	Permanent
326		Bend Test	Qualitative	IS:1599	Permanent
327		Erichsen Cupping Value	5.0 mm to 25 mm	IS: 10175	Permanent
328	Welded Metals alloy &Products	Root Bend & Face Bend	NA	IS: 3600 (Pt-5)	Permanent
329		Tensile Strength	50 N/mm ² -700N/mm ²	IS: 1608(pt-1)	Permanent
330	Steel fibre	Diameter of fibre	0.05 mm -5.0mm	ASTM A-820	Permanent
331		Length of fibre	5 mm -100mm	ASTM A-820	Permanent
332		Tensile strength	500 N/mm ² -1500N/mm ²	ASTM A-820	Permanent
333		Aspect Ratio	NA	ASTM A-820	Permanent
334	Self DrillingAncher (SDA Bolt)	Tensile strength	100 N/mm ² -1500N/mm ²	IS: 1608(P-1)	Permanent
335		Ultimate load	100 kN -1000kN	IS: 1608(P-1)	Permanent
336		Yield Load	100 kN -500kN	IS:1608(P-1)	Permanent
337		Yield Stress	100 N/mm ² -1200N/mm ²	IS:1608(P-1)	Permanent
338		Weight	0.025 kg/m ² -20kg/m ²	Weighing Balance	Permanent
339		Dimension (i) Outer Diameter	1.0 mm -100mm	IS: 1608(Pt-1)	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
340		(ii) Inside Diameter	1.0 mm -50mm	By Calculation	Permanent
341		Cross Sectional Area	50 mm ² -1000mm ²		Permanent
342		Elongation %	2.0 % – 70%	IS:1608(P-1)	Permanent
343	Hexagon Head Bolts, Screws & Nuts IS: 1363 (Pt-1&2)2023/ IS: 1364(Pt-1&2)2023	Dimension	5-100mm	IS: 1363(Pt-1&2) IS: 1364(Pt-1&2)	Permanent
344		General Requirement	Qualitative	ISO: 8992	Permanent
345		Thread	Qualitative	IS: 1363(Pt-1&2) ISO: 965-1	Permanent
346				IS: 1364(Pt-1&2)	
347		Mechanical Properties Tensile Strength ,MPa	350-1500 MPa	ISO: 6892(Pt-1)	Permanent
348		Lower Yield Strength, MPa	200-1100 MPa	ISO: 6892(Pt-1)	Permanent
349		Wedge tensile , N	1000-850000N	ISO: 898-1	Permanent
350		Stress at 0.2% nonProportional Elongation	200-1100 MPa	ISO: 6892(Pt-1)	Permanent
351		Stress under proof load	200-1100 kN	ISO: 6892(Pt-1)	Permanent
352		Proof strength ratio	0.8-0.95	ISO: 6892(Pt-1)	Permanent
353		Percent Elongation after	0.1 % -30%	ISO: 6892(Pt-1)	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
		fracture			
354		Percentage reduction of area after fracture for machine test pieces	0.5%-50%	ISO: 6892(Pt-1)	Permanent
355	Hexagon Head Bolts, Screws & Nuts IS: 1363 (Pt-1&2)2023/ IS: 1364(Pt-1&2)2023	Percent reduction after fracture for full size fasters	0.5% -5.0%	ISO: 6892(Pt-1)	Permanent
356		Head Soundness	Qualitative	IS: 1367(Pt-3)	Permanent
357		Vicker Hardness, HV	20-500 HV	ISO: 6507(Pt-1)	Permanent
358		Rockwell Hardness, HRB	20-100 HRB	ISO: 6508(Pt-1)	Permanent
359		Rockwell Hardness, HRC	20-70 HRC	ISO: 6508(Pt-1)	Permanent
360		Breaking torque	Qualitative	ISO: 898-7	Permanent
361		Impact Strength (at -20°C)	5-100 Joule	ISO: 148-1	Permanent
362		Tensile Load ,N	1000-850000 N	ISO: 898-1	Permanent
363		Surface finish	Qualitative	ISO: 10684	Permanent
364		Appearance	Qualitative	IS: 1363(Pt-1&2)	Permanent
365	Hexagon Head Nuts IS: 1363 (Pt-3)2023	Dimension General Requirement	5 mm -100mm Qualitative	IS: 1363(Pt-3) ISO: 8992	Permanent
366		Thread	Qualitative	IS: 1363(Pt-3) ISO: 965-1 ISO:724	Permanent
367		Mechanical Properties Proof Load , N	Qualitative	IS: 1367(Pt-6)	Permanent



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368		Vicker Hardness, HV	20-500 HV	ISO: 6507(Pt-1)	Permanent
369		Rockwell Hardness, HRB	20-100 HRB	ISO: 6508(Pt-1)	Permanent
370		Rockwell Hardness, HRC	20-70 HRC	ISO: 6508(Pt-1)	Permanent
371		Surface finish	Qualitative	ISO: 10684	Permanent
372		Appearance	Qualitative	IS: 1363(Pt-3)	Permanent
373		Mechanical Properties			
374		Tensile Strength, MPa	350-1500 MPa	ISO: 6892(Pt-1)	Permanent
375		Stress at 0.2% nonProportional Elongation	200-1100 MPa	ISO: 6892(Pt-1)	Permanent
376	Threaded	proof load	200-1000 kN	ISO: 6892(Pt-1)	Permanent
377	Steel fastener	Proof strength ratio	0.8-0.95	ISO: 6892(Pt-1)	Permanent
378	IS: 1367 (Pt-3)2023	Percent Elongation after fracture	0.1 %-30%	ISO: 6892(Pt-1)	Permanent
379		Percentage reduction of area after fracture for machine test pieces	0.5 %-50%	ISO: 6892(Pt-1)	Permanent
380		Percent reduction after fracture for full size fasters	0.5 %-5.0%	ISO: 6892(Pt-1)	Permanent
381		Head Soundness	Qualitative	IS: 1367(Pt-3)	Permanent
382		Vicker Hardness, HV	20-500	ISO: 6507(Pt-1)	Permanent
383		Rockwell Hardness, HRB	20-100	ISO: 6508(Pt-1)	Permanent
384		Rockwell Hardness, HRC	20-70	ISO: 6508(Pt-1)	Permanent
385		Breaking torque	Qualitative	ISO: 898-7	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
386		Impact Strength (at -20°C)	5-100 Joule	ISO: 148-1	Permanent
387	Threaded Steel fastener IS: 1367 (Pt-6)2018	Proof Load , N	Qualitative	ISO: 6892(Pt-1)	Permanent
388		Vicker Hardness, HV	20-500 HV	ISO: 6507(Pt-1)	Permanent
389		Rockwell Hardness, HRB	20-100 HRB	ISO: 6508(Pt-1)	Permanent
390		Rockwell Hardness, HRC	20-70 HRC	ISO: 6508(Pt-1)	Permanent
391	Threaded Steel Fasteners (Hot dip galvanized threaded fastener)	Proof Load	200-1000 kN	IS: 1367(Pt-6)	Permanent
392	IS: 1367(Pt-13)2020	Tensile Strength (Stress under proof load)	200-1100 MPa	IS: 1367(Pt-3)	Permanent
393	Hexagon Head Transmission Tower Bolts IS: 12427-2001	(1)DimensionofBol t	5-100 mm	IS: 12427	Permanent
394		(2) Mechanical Properties Tensile Strength ,MPa	350-1500 MPa	ISO: 6892(Pt-1)	Permanent
395		Stress at 0.2% non Proportional Elongation	200-1100 MPa	ISO: 6892(Pt-1)	Permanent
396		Stress under proof load	200-1000 kN	ISO: 6892(Pt-1)	Permanent
397		Proof strength ratio	0.8-0.95	ISO: 6892(Pt-1)	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
398		Percent Elongation after fracture	0.1 % -30%	ISO: 6892(Pt-1)	Permanent
399		Percentage reduction of area after fracture for machine test pieces	0.5% -50%	ISO: 6892(Pt-1)	Permanent
400		Percent reduction after fracture for full size fasters	0.5% -5.0%	ISO: 6892(Pt-1)	Permanent
401		Head Soundness	Qualitative	IS: 1367(Pt-3)	Permanent
402		Vicker Hardness, HV	20-500 HV	ISO: 6507(Pt-1)	Permanent
403		Rockwell Hardness, HRB	20-100 HRB	ISO: 6508(Pt-1)	Permanent
404		Rockwell Hardness, HRC	20-70 HRC	ISO: 6508(Pt-1)	Permanent
405		Breaking torque	Qualitative	ISO: 898-7	Permanent
406		Impact Strength (at -20°C)	5-100 Joule	ISO: 148-1	Permanent
407		Finish	Qualitative	IS: 12427	Permanent
408	Aluminium Ingots , Billet & Wire Bars	Shapes and size (a) Length (b) Height	20 mm -500mm 10 mm -100mm	IS: 4026	Permanent
Discipline: Mechanical; Group: Plastic and Plastic Products					
409	High Density Polyethylene (HDPE) Pipes	Colour	Qualitative	IS 4984	Permanent
410		Identification of Strips	Qualitative	IS 4984	Permanent
411	High Density Polyethylene (HDPE)/ Medium	Internal Pressure Creep Rupture Test	Qualitative	IS 4984	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
412	Density Polyethylene (MDPE)/ Polyethylene (PE) Pipes & Materials	Tensile Strength for Butt fusion	Qualitative	IS 4984	Permanent
413		Density	800 kg/m ³ to 2000 kg/m ³	IS 7328	Permanent
414		Density	800 kg/m ³ to 2000 kg/m ³	ASTM D 297	Permanent
415		Dimension (Outside Diameter)	0.1 mm to 600 mm	IS 4984	Permanent
416	High Density Polyethylene (HDPE)/ Medium Density Polyethylene (MDPE)/ Polyethylene (PE) Pipes	Dimension (Ovality)	0.1 mm to 50 mm	IS 4984	Permanent
417		Dimension (Wall Thickness)	0.01 mm to 50 mm	IS 4984	Permanent
418		Impact Resistance	Qualitative	IS 13592	Permanent
419		Resistance to External Blows	Qualitative	IS 13592	Permanent
420		Reversion Test	0.2 % to 100 %	IS 4984	Permanent
421		Specific Gravity	800 to 2000	IS 7328	Permanent
422		Specific Gravity	800 to 2000	ASTM D 297	Permanent
423	High Density Polyethylene (HDPE)/ Medium Density Polyethylene (MDPE)/ Polyethylene (PE) Pipes & Materials	Elongation	50 % to 1200 %	IS 4984	Permanent
424		Melt Flow Rate	0.01 g/10 minutes to 10 g/10 minutes	IS 2530	Permanent
425		Thermal Stability(Oxidation Induction Time)	5 Minutes to 200 Minutes	IS 4984	Permanent
426		Visual Appearance	Qualitative	IS 4984	Permanent
427		Slow Crack Growth Rate Test	Qualitative	IS 4984	Permanent
428		Tensile Strength at Yield	10 N/mm ² to 100 N/mm ²	IS 4984	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
429	High Density Polyethylene (HDPE)/ Polyethylene (PE)/ Polypropylene Random Copolymer (PPR) Pipe	Hydrostatic Pressure Test(Long/Short term)	Qualitative	IS 4984	Permanent
430	High Density Polyethylene Sack	Elongation at Break	5 % to 600 %	IS 1969 (Part-1)	Permanent
431		Mass of Sack a) Unlaminated Sack b) Sack with Linear	0.1 gm to 5000 gm	IS 1964	Permanent
432		Ends per dm	1 per dm to 200 per dm	IS 14887	Permanent
433		Ends per dm	1 per dm to 200 per dm	IS 14968	Permanent
434		Picks per dm	1 per dm to 200 per dm	IS 14887	Permanent
435		Picks per dm	1 per dm to 200 per dm	IS 14968	Permanent
436		Breaking Strength	1 N to 10000 N	IS 1969 (Part-1)	Permanent
437		Breaking Strength Bottom Seam	1 N to 10000 N	IS 9030	Permanent
438		Dimension (Length)	0.1 cm to 150 cm	IS 1954	Permanent
439		Dimension (Width)	0.1 cm to 150 cm	IS 1954	Permanent
440	Chlorinated Polyvinyl Chloride(CPVC Pipe)	Resistance to external Blows	Qualitative	IS 15778	Permanent
441		Visual Appearance	Qualitative	IS 15778	Permanent
442	Unplasticized Polyvinyl Chloride (UPVC) Pipes	Colour	Qualitative	IS 13592	Permanent
443		Dimension (Mean Outer Diameter)	1 mm to 500 mm	IS 12818	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
		over Connection)			
444		Dimension (Mean Outer Diameter)	1 mm to 500 mm	IS 12818	Permanent
445		Dimension (Outer Diameter at any Point)	1 mm to 500 mm	IS 12818	Permanent
446		Dimension (Wall Thickness)	0.1 mm to 30 mm	IS 12818	Permanent
447		General Appearance	Qualitative	IS 12818	Permanent
448		Internal Diameter	Qualitative	IS 12818	Permanent
449		Slots	0.1 mm to 50 mm	IS 12818	Permanent
450	Unplasticized Polyvinyl Chloride(UPVC) PIPE	Axial Shrinkage	0.01 % to 50 %	IS 13592	Permanent
451		Effect of Sunlight	Qualitative	IS 13592	Permanent
452		Length of Pipe	0.5 m to 10 m	IS 13592	Permanent
453		Marking	Qualitative	IS 4985	Permanent
454		Socket of Pipe	Qualitative	IS 13592	Permanent
455		Stress Relief Test	Qualitative	IS 12235(Part-6)	Permanent
456		Visual Appearance	Qualitative	IS 4985	Permanent
457		Visual Appearance	Qualitative	IS 13592	Permanent
458		Water Tightness Test of Joints	Qualitative	IS 13592	Permanent
459		Opacity	0.1 % to 4 %	IS 12235(P-3)	Permanent
460	UPVC Pipes & Fittings/CPVC Pipe	Tensile Strength	2 N/mm ² to 100 N/mm ²	IS 12235(P-13)	Permanent
461		Vicat Softening Temperature	50 °C to 150 °C	IS 12235(P-2)	Permanent
462		Visual Appearance	Qualitative	IS 4985	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
463	UPVC Pipes & Fittings/CPVC Pipe	Visual Appearance	Qualitative	IS 12818	Permanent
464		Visual Appearance	Qualitative	IS 10124(P-1)	Permanent
465		VicatSoftening Temperature	50 °C to 150 °C	IS 6307	Permanent
466		Dimension (Inside Diameter)	0.1 mm to 600 mm	IS 12818	Permanent
467	UPVC Pipes & Fittings/CPVC Pipe	Dimension (Outside Diameter)	0.1 mm to 600 mm	IS 12818	Permanent
468		Dimension (Socket Length)	0.1 mm to 600 mm	IS 12818	Permanent
469		Dimension (Wall Thickness)	0.1 mm to 600 mm	IS 12818	Permanent
470		Resistance to Chemical Action	0.01 % to 5 %	IS 13592	Permanent
471		Tensile Strength	0 N/mm ² to 100 N/mm ²	IS 12235 (Part-13)	Permanent
472		Visual Appearance	Qualitative :NA	IS 12818	Permanent
473		Visual Appearance	Qualitative :NA	IS 10124 (Part-2)	Permanent
474		Visual Appearance	Qualitative :NA	IS 4985	Permanent
475		Visual Appearance	Qualitative	IS 2508	Permanent
476		Density	0.8 g/cc to 5 g/cc	ASTM D 297	Permanent
477		Dimension (Inside Diameter)	0.1 mm to 600 mm	IS 13592	Permanent
478		Dimension (Inside Diameter)	0.1 mm to 600 mm	IS 10124 (Part-1)	Permanent
479		Dimension (Inside Diameter)	0.1 mm to 600 mm	IS 12235 (Part-1)	Permanent
480	UPVC Pipes & Fittings/CPVC Pipe & Fittings	Dimension (Inside Diameter)	0.1 mm to 600 mm	IS 15778: 2007	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
481	UPVC Pipes & Fittings/CPVC Pipe & Fittings	Dimension (Inside Diameter)	0.1 mm to 600 mm	IS 4985: 2021	Permanent
482		Dimension (Outside Diameter)	0.1 mm to 600 mm	IS 10124 (Part-1)	Permanent
483		Dimension (Outside Diameter)	0.1 mm to 600 mm	IS 12235 (Part-1)	Permanent
484		Dimension (Outside Diameter)	0.1 mm to 600 mm	IS 15778	Permanent
485		Dimension (Outside Diameter)	0.1 mm to 600 mm	IS 4985	Permanent
486		Dimension (Outside Diameter)	0.1 mm to 600 mm	IS 13592	Permanent
487		Dimension (Socket Length)	0.1 mm to 600 mm	IS 10124 (Part-1)	Permanent
488		Dimension (Socket Length)	0.1 mm to 600 mm	IS 12235 (Part-1)	Permanent
489	UPVC Pipes & Fittings/CPVC Pipe & Fittings	Dimension (Socket Length)	0.1 mm to 600 mm	IS 15778	Permanent
490		Dimension (Socket Length)	0.1 mm to 600 mm	IS 4985	Permanent
491		Dimension (Socket Length)	0.1 mm to 600 mm	IS 13592	Permanent
492		Dimension (Wall Thickness)	0.1 mm to 600 mm	IS 13592	Permanent
493		Dimension (Wall Thickness)	0.1 mm to 600 mm	IS 12235 (Part-1)	Permanent
494		Dimension (Wall Thickness)	0.1 mm to 600 mm	IS 4985	Permanent
495		Dimension (Wall Thickness)	0.1 mm to 600 mm	IS 15778	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
496	UPVC Pipes & Fittings/CPVC Pipe & Fittings	Dimension (Wall Thickness)	0.1 mm to 600 mm	IS 10124 (Part-1)	Permanent
497		Resistance to Chemical Action	0.01 % to 5 %	IS 12235 (Part-7)	Permanent
498		Reversion Test	0.2 % to 20 %	IS 12235 (Part-5/ Sec-1 & 2)	Permanent
499		Reversion Test	0.2 % to 20 %	IS 15778	Permanent
500		Specific Gravity	0.8 to 5	ASTM D 297	Permanent
501		Tensile Strength	5 N/mm ² to 100 N/mm ²	IS 12818	Permanent
502		Density	0.8 g/cc to 5 g/cc	IS 12235 (Part-14)	Permanent
503		Specific Gravity	0.8 to 5	IS 12235 (Part-14)	Permanent
504	UPVC/CPVC Pipes & Fittings	Hydrostatic Pressure Test (Long Terms)	Qualitative	IS 12235 (Part-8)	Permanent
505		Flattening Test	Qualitative	IS 12235(P-19)	Permanent
506		Hydrostatic Pressure Test (Short Terms)	Qualitative	IS 12235 (Part-8)	Permanent
507		Impact Resistance/ Resistance to External Blows	Qualitative	IS 13592	Permanent
508		Impact Resistance/Resistance to External Blows	Qualitative	IS 12235(P-9)	Permanent
509		Impact Resistance/Resistance to External Blows	Qualitative	IS 4985	Permanent
510		Vicat Softening Temperature	50 °C to 150 °C	IS 12235(P-2)	Permanent
511	Polyethylene Pipe	Dimension (Outside Diameter)	10 mm to 500 mm	IS 12786	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
512	Polyethylene Pipe	Dimension (Wall Thickness)	10 mm to 500 mm	IS 12786	Permanent
513		Elongation at Break	5 % to 1000 %	IS 2530	Permanent
514		Elongation at Break	5 % to 1000 %	IS 12786	Permanent
515		Hydraulic Characteristics	Qualitative	IS 12786	Permanent
516		Hydraulic Characteristics (Acceptance Test)	Qualitative	IS 12786	Permanent
517		Reversion Test	0.1 % to 10 %	IS 12786	Permanent
518		Susceptibility to environmental Stress Cracking	Qualitative	IS 12786	Permanent
519		Tensile Strength at Break	5 Mpa to 50 Mpa	IS 12786	Permanent
520		Tensile Strength at Break	5 MPa to 50 MPa	IS 2530	Permanent
521		Visual Appearance	Qualitative	IS 12786	Permanent
522	Polypropylene-Random Copolymer Pipes (PPR) Pipe	Fusion Compatibility	Qualitative	IS 15801	Permanent
523		Impact Strength	Qualitative	IS 15801	Permanent
524		Thermal Stability by Hydrostatic Pressure Testing	Qualitative	IS 15801	Permanent
525		Ovality	0. 1 mm to 25 mm	IS 15801	Permanent
526		Dimension (Outside Diameter)	1 mm to 500 mm	IS 15801	Permanent
527		Dimension (Wall Thickness)	1 mm to 50 mm	IS 15801	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
528	PVC Geomembrane	Behaviour after Storage in Aqueous Solution (Resistance to Acid and Alkali after 28 days)	1 % to 20 %	IS 15909	Permanent
529		Behaviour During Perforation (Static Puncture Test)	1500 N to 5000 N	IS 16078	Permanent
530		Change of Dimensioning after Heating at 70°C for 2 h	Qualitative	IS 15909	Permanent
531		Cold Crack Resistance at Low Temperature	Qualitative	IS 15909	Permanent
532		Dimensional Stability at 80°C for 6 Hours	Qualitative: Range: (-5% to +5%)	IS 15909	Permanent
533		Elongation at Break (Longitudinal & Transverse)	50 % to 500 %	IS 2076	Permanent
534		Elongation at Break (Longitudinal and Transverse)	100 % to 500 %	IS 15909	Permanent
535		Flammability Test (Horizontal and Vertical Burning)	50 mm/min to 500 mm/min	IS 15061	Permanent
536		Height of Fall Without Perforation	Qualitative	IS 15909	Permanent
537		Low Temperature Crack Resistance	Qualitative	IS 15909	Permanent
538		Peel Strength	500 N/m to 2000 N/m	IS15909	Permanent
539		Resistance to Soil Burial	2 % to 40 %	IS 15909	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
540	PVC Geomembrane	Resistance to Static Puncturing	Qualitative	IS 15909	Permanent
541		Seam Strength	25 % to 100 %	IS 15909	Permanent
542		Specific Gravity	1 to 2	IS 2076	Permanent
543		Stability to ultraviolet radiations, % retention in tensile strength and elongation at break (Longitudinal and transverse)	60 % to 100 %	IS 15909	Permanent
544		Strength of Welded Seam Shear Resistance	500 N/50 mm to 2000 N/50 mm	IS 15909	Permanent
545		Tear Propagation (Machine and Cross Direction)	40 N/mm to 400 N/mm	IS 15909	Permanent
546		Tear Resistance (Machine & Cross Direction)	10 N to 200 N	IS 15909	Permanent
547		Tensile Strength (Longitudinal & Transverse)	5 MPa to 25 MPa	IS 2076	Permanent
548		Tensile Strength (Longitudinal and Transverse)	5 MPa to 30 MPa	IS 15909	Permanent
549		Thickness	0 mm to 3.00 mm	IS 3464	Permanent
550		Volatile Loss	0.1 % to 2.0 %	IS 3464	Permanent
551		Water Extraction	0.01 % to 0.25 %	IS 15909	Permanent
552		Width	1 mm to 5000 mm	IS 15909 (Annex A)	Permanent
553	Plastic Feeding Bottles	Ageing Resistance	Qualitative :Visual	IS 14625	Permanent
554		Capacity	100 ml to 300 ml	IS 14625	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
555		Capacity Scale	20 ml to 300 ml	IS 14625	Permanent
556		Compressive Deformation Resistance	Qualitative :Visual	IS 14625	Permanent
557		Drop Test	Qualitative :Visual	IS 14625	Permanent
558		Leakage Test	Qualitative :Visual	IS 14625	Permanent
559		Migration Test	0.1 mg/l to 100 mg/l	IS 9845	Permanent
560		Permanency of Pigment	Qualitative :NA	Annex B of IS 14625	Permanent
561		Product Resistance of Printed Containers	Qualitative :Visual	IS 2798	Permanent
562		Wall Thickness	0.01 mm to 25 mm	IS 2798	Permanent
563		Accelerated Extraction	Qualitative	IS 15058	Permanent
564	PVC Water Stops	Cold Bend Test	Qualitative	IS 9766	Permanent
565		Dimension (Thickness)	5 mm to 25 mm	IS 15058	Permanent
566		Dimension (Width)	100 mm to 400 mm	IS 15058	Permanent
567		Effect of Alkali	0.01 % to 5 %	IS 15058	Permanent
568		Elongation	5 % to 500 %	IS 13360 (Part-5/Section-3)	Permanent
569		Elongation	5 % to 500 %	IS 13360 (Part-5/Section-1)	Permanent
570		Elongation	5 % to 500 %	IS 13360 (Part-5/Section-2)	Permanent
571		Hardness	5 Shore A to 100 Shore A	IS 13360 (Part-5/Section-11)	Permanent
572		Tensile Strength	2 N/mm ² to 30 N/mm ²	IS 13360 (Part-5/Section-3)	Permanent

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573		Tensile Strength	2 N/mm ² to 30 N/mm ²	IS 13360 (Part-5/Section-1)	Permanent
574		Tensile Strength	2 N/mm ² to 30 N/mm ²	IS 13360 (Part-5/Section-2)	Permanent
575		Water Absorption	0.01 % to 10 %	IS 15058	Permanent
576	Quick Coupled PE pipes	Appearance	Qualitative	IS 17425	Permanent
577		Dimension (Outside Diameter)	0.1 mm to 200 mm	IS 17425	Permanent
578		Dimension (Ovality)	0.1 mm to 10 mm	IS 17425	Permanent
579		Dimension (Wall Thickness)	1 mm to 25 mm	IS 17425	Permanent
580		Elongation at Break	50 % to 800 %	IS 17425	Permanent
581		Fusion Compatibility (Quality and Acceptance Test)	Qualitative	IS 17425	Permanent
582		Holding Attachment for Coupler parts	Qualitative	IS 17425	Permanent
583		Hydraulic Characteristics (Internal Pressure Creep Rupture Quality and Acceptance Test)	Qualitative	IS 17425	Permanent
584		Hydraulic Proof Test	Qualitative	IS 17425	Permanent
585		Leakage Test	Qualitative	IS 17425	Permanent
586		Reversion Test	0.1 % to 10 %	IS 17425	Permanent
587		Tensile Strength at yield	5 Mpa to 50 Mpa	IS 17425	Permanent
588		Visual Appearance and Workmanship	Qualitative	IS 17425	Permanent
589		Wall Thickness of Coupler	0.1 mm to 10 mm	IS 17425	Permanent



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590		Weld ability Test (Quality and Acceptance test)	Qualitative	IS 17425	Permanent
591	Water Storage Tank	Capacity	200 Ltr to 10000 Ltr	IS 12701	Permanent
592		Provision of Flat Area	Qualitative	IS 12701	Permanent
593		Resistance to impact	Qualitative	IS 12701	Permanent
594		Resistance to top load test	Qualitative	IS 12701	Permanent
595	Container for Packaged Drinking Water/Packaged Mineral Water with Cap	Capacity (Nominal/Brimful)	0.001 ml to 2000 ml	IS 2798	Permanent
596		Drop Test	Qualitative :Visual	IS 2798	Permanent
597		Leakage Test (Closure Leakage)	Qualitative :Visual	IS 2798	Permanent
598		Migration Test (40±2°C for 10 days)	0.5 mg/l to 50 mg/l	IS 9845	Permanent
599		Wall Thickness (Top, Middle, Bottom)	0.01 mm to 25 mm	IS 2798	Permanent
600		Water Portability Test (38±2°C for 30 days)	Qualitative :Smell and Taste	IS 3025 (Part-5)	Permanent
601		Water Portability Test (38±2°C for 30 days)	Qualitative :Smell and Taste	IS 3025 (Part-8)	Permanent
602		Workmanship, Appearance and Finish etc.	Qualitative :Visual	IS 15410	Permanent
603	Polyethylene Flexible Pouches	Drop Test	Qualitative :Visual	IS 15609	Permanent
604		Elongation at Break	1 % to 600 %	IS 2508	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
605		Ink Adhesion Test for Printed Pouches	Qualitative :Visual	IS 15609	Permanent
606		Overall Migration	0.1 mg/l to 200 mg/l	IS 9845	Permanent
607		Product Resistance Test for Printed Pouch	Qualitative :Visual	IS 15609	Permanent
608		Stack Load Test	Qualitative :Visual	IS 15609	Permanent
609		Tensile Strength	1 N/mm ² to 400 N/mm ²	IS 2508	Permanent
610		Thickness	1 micron to 1000 micron	IS 15609	Permanent
611		Water Portability Test	Qualitative :Visual	IS 15609	Permanent
612		Width	0.5 mm to 600 mm	IS 15609	Permanent
613	Rotational Moulded Polyethylene Water Storage Tanks	Dimension (Bottom Thickness)	2 mm to 5000 mm	IS 12701	Permanent
614		Dimension (Internal Diameter)	2 mm to 5000 mm	IS 12701	Permanent
615		Dimension (Overall Diameter)	2 mm to 5000 mm	IS 12701	Permanent
616		Dimension (Overall Height)	2 mm to 5000 mm	IS 12701	Permanent
617		Dimension (Wall Thickness)	2 mm to 5000 mm	IS 12701	Permanent
618		Finish	Qualitative :NA	IS 12701	Permanent
619		Flexural Modulus	100 kg/cm ² to 1300 kg/cm ²	IS 13360 (Part-5/Section-7)	Permanent
620		Overall Migration	5 mg/l to 200 mg/l	IS 9845	Permanent
621	Rotational Moulded Polyethylene Water Storage	Resistance to Deformation	0.1 % to 10 %	IS 12701	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
622	Tanks	Tensile Strength	10 kg/cm ² to 40 kg/cm ²	IS 13360 (Part-5/Section-1)	Permanent
623	Films & Sheets	Appearance	Qualitative :Visual	IS 2508	Permanent
624		Appearance	Qualitative :Visual	IS 10889	Permanent
625		Carbon Black Content	0.1 % to 20 %	IS 2530	Permanent
626		Carbon Black Dispersion	Qualitative :Visual	IS 2530	Permanent
627		Density	0.8 g/cc to 2 g/cc	IS 2508	Permanent
628		Density	0.8 g/cc to 2 g/cc	IS 10889	Permanent
629		Dimension (Thickness)	100 μ to 5000 μ	IS 2508	Permanent
630		Dimension (Thickness)	10 μ to 1000 μ	IS 10889	Permanent
631		Elongation	5 % to 1200 %	IS 10889	Permanent
632		Elongation	5 % to 1200 %	IS 2508	Permanent
633		Odour	Qualitative :Visual	IS 10889	Permanent
634		Odour	Qualitative :Visual	IS 2508	Permanent
635		Tensile Strength	10 N/mm ² to 50 N/mm ²	IS 2508	Permanent
636		Tensile Strength	10 N/mm ² to 50 N/mm ²	IS 10889	Permanent
637	Double Wall corrugated Pipes	Color of finished pipes	Qualitative	IS 16098(P-2)	Permanent
638		Dimension of Pipes	75 mm to 600 mm	IS 16098(P-2)	Permanent
639		Impact Test	Qualitative	IS 16098(P-2)	Permanent
640		Resistance to heating	Qualitative	IS 16098(P-2)	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
641	Double Wall corrugated Pipes	Ring flexibility 30% of item	Qualitative	IS 16098(P-2)	Permanent
642		Ring Stiffness	Qualitative	IS 16098(P-2)	Permanent
643		Visual appearance	Qualitative	IS 16098(P-2)	Permanent
644	EMITTING PIPE SYSTEMS	Resistance to Pull Out of Joints Between Fitting and Emitting	Qualitative	IS 13488	Permanent
645		DESIGNATION	Qualitative	IS 13488	Permanent
646		Dimension (Inside Diameter)	0.1 mm to 50 mm	IS 13488	Permanent
647		Dimension (Wall Thickness)	0.1 mm to 50 mm	IS 13488	Permanent
648		Emission Rate of Emitting Unit as a Function of Inlet Pressure	Qualitative	IS 13488	Permanent
649		Resistance of Emitting Pipes to Hydrostatic Pressure	Qualitative	IS 13488	Permanent
650		Resistance of PE Emitting Pipe to Environmental Stress Cracking	Qualitative	IS 13488	Permanent
651		Resistance to Tension at Elevated Temperature	Qualitative	IS 13488	Permanent
652	PLASTICS BIB TAPS, PILLAR TAPS, ANGLE VALVES AND STOP VALVES FOR HOT AND COLD WATER SERVICES	Resistance to Residual Chlorine in Water	Qualitative	IS 9763	Permanent
653		Drip Proofness Test	Qualitative	IS 9763	Permanent
654		Hydraulic Pressure Test	Qualitative	IS 9763	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
655		Mechanical Strength Characteristics	Qualitative	IS 9763	Permanent
656		Thermal Shock Test at 65±2°C	Qualitative	IS 9763	Permanent
657		Density	900 kg/m ³ to 1500 kg/m ³	IS 7328	Permanent
658	Polyethylene Pipes for the Supply of Gaseous Fuels	Density (PE Compound)	900 kg/m ³ to 1500 kg/m ³	IS 7328	Permanent
659		Dimension (Outside Diameter)	16 mm to 630 mm	IS 14885	Permanent
660		Dimension (Ovality)	0.1 mm to 50 mm	IS 14885	Permanent
661		Dimension (Wall Thickness)	1.0 mm to 50 mm	IS 14885	Permanent
662		Elongation at Break	50 % to 1200 %	IS 4984	Permanent
663		Finish	Qualitative	IS 14885	Permanent
664		Hydraulic Characteristics (Internal Pressure Creep Rupture Test - at 20°C for 100 Hrs)	Qualitative	IS 4984	Permanent
665		Hydraulic Characteristics (Internal Pressure Creep Rupture Test - at 80°C for 1000 Hrs)	Qualitative	IS 4984	Permanent
666		Hydraulic Characteristics (Internal Pressure Creep Rupture Test - at 80°C for 165 Hrs)	Qualitative	IS 4984	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
667	Polyethylene Pipes for the Supply of Gaseous Fuels	Melt Flow Rate	0.1 g/10 minutes to 15 g/10 minutes	IS 2530	Permanent
668		Melt Flow Rate (PE Compound)	0.1 g/10 minutes to 15 g/10 minutes	IS 2530	Permanent
669		Reversion Test	0.2 % to 50 %	IS 4984	Permanent
670		Slow Crack Growth Rate	Qualitative	IS 4984	Permanent
671		Squeeze Off	Qualitative	IS 14885	Permanent
672		Tensile Yield Strength	5 MPa to 100 MPa	IS 4984	Permanent
673		Thermal Stability (OIT) (PE Compound)	10 minutes to 200 minutes	IS 4984	Permanent
674		Thermal Stability (Oxidation Induction Time)	10 minutes to 200 minutes	IS 4984	Permanent
675	PPR Pipes	Charpy Impact Strength	5 Kj/m ² to 100 Kj/m ²	IS 13360(P-5/Sec-5)	Permanent
676	UPVC Non - Pressure PVC Pipes	Internal Negative Hydrostatic Pressure (Internal Vacuum)	Qualitative	IS 15328	Permanent
677	Plastic Sheet	Hardness Shore D	5 Shore D to 100 Shore D	IS 13360 (Part-5/Section-11)	Permanent
678	Conduits for electrical installations: Part 3 Rigid plain conduits of insulating materials	Bending Test (at room temp. & low Temp. -5±2°C)	Qualitative	IS 9537 (P-3)	Permanent
679	Conduits for electrical installations: Part 1 General requirements	Collapse Test	Qualitative	IS 9537 (P-1)	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
680	Conduits for electrical installations: Part 3 Rigid plain conduits of insulating materials	Resistance to Heat	Qualitative	IS 9537 (P-3)	Permanent
681	Conduits for electrical installations: Part 1 General requirements	Resistance to Burning	Qualitative	IS 9537 (P-1)	Permanent
682	Conduits for electrical installations: Part 3 Rigid plain conduits of insulating materials	Length of Pipe	0.001 mtr to 15 mtr	IS 9537 (P-3)	Permanent
683	Conduits for electrical installations: Part 3 Rigid plain conduits of insulating materials	Uniformity of the Wall thickness	0.02 % to 25 %	IS 9537 (P-3)	Permanent
684	Conduits for electrical installations: Part 1 General requirements	Compression Test (Variation in diameter under compression force and after removing compression force)	Qualitative	IS 9537 (P-1)	Permanent
685	Conduits for electrical installations: Part 1 General requirements	Impact Test	Qualitative	IS 9537 (P-1)	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
686	Conduits for electrical installations: Part 1 General requirements	Construction	Qualitative	IS 9537 (P-1)	Permanent
687	Conduits for electrical installations: Part 3 Rigid plain conduits of insulating materials	Dimension of Socket/ Pipe (MID, MOD)	Qualitative (Checking by Gauges)	IS 9537 (P-3)	Permanent
688	Conduits for electrical installations: Part 1 General requirements	Marking	Qualitative	IS 9537 (P-1)	Permanent
689	Conduits for electrical installations: Part 1 General requirements	Insulation Resistance between water and inside of PVC pipe	Qualitative	IS 9537 (P-1)	Permanent
690	Conduits for electrical installations: Part 1 General requirements	Electrical Strength Between water and inside of PVC pipe	Qualitative	IS 9537 (P-1)	Permanent
691	Conduit Systems for Cable Management	Construction	Qualitative	IS 16205 (P-24)	Permanent
692		Dimension (OD/ID)	0.02 mm to 1200 mm	IS 16205 (P-24)	Permanent
693		Electromagnetic Compatibility	Qualitative	IS 16205 (P-24)	Permanent
694		Spread of Fire (Resistance to flame propagation)	Qualitative	IS 16205 P-1)	Permanent
695		Marking	Qualitative	IS 16205 (P-24)	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
696		Glow Wire (@ 750°C)	Qualitative	IS 16205 (P-1)	Permanent
697		Bending Test at room temp & (-5±1) °C for 2 hrs	Qualitative	IS 16205 (P-24)	Permanent
698		Compression Test	Qualitative	IS 16205 (P-24)	Permanent
699		Impact Test	Qualitative	IS 16205 (P-24)	Permanent
700		Degree of protection-Ingress of foreign soli objective (IP 67/6X)	Qualitative	IS 16205 (P-1)	Permanent
701		Visual (Multiwall Conduit)	Qualitative	IS 16205 (P-24)	Permanent
702		Degree of protection-Ingress of water (IP X7)	Qualitative	IS 16205(P-1)	Permanent
Discipline: Chemical; Group: Metals & Alloys					
703	Low Alloy Steel	Aluminium	0.01 % to 1.0 %	ASTM E 350	Permanent
704		Carbon	0.004 % to 0.3 %	IS 228 (Part-1)	Permanent
705		Chromium	0.10 % to 2.0 %	IS 228 (Part-6)	Permanent
706		Copper	0.1 % to 2.0 %	IS 228(P-15)	Permanent
707		Manganese	0.1 % to 3.0 %	IS 228 (Part-2)	Permanent
708		Molybdenum	0.10 % to 1.0 %	IS 228 (Part-7)	Permanent
709		Nickel	0.1 % to 2.0 %	IS 228 (Part-5)	Permanent
710		Low Alloy Steel	Nitrogen	0.003 % to 0.1 %	IS 228 (Part-19)
711	Low Alloy Steel	Phosphorus	0.005 % to 0.50 %	IS 228 (Part-3)	Permanent
712		Silicon	0.02 % to 2.0 %	IS 228 (Part-8)	Permanent
713		Sulphur	0.002 % to 0.05 %	IS 228 (Part-9)	Permanent
714	Stainless Steel	Carbon	0.005 % to 2.6 %	IS 9879	Permanent



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Sr. no.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Test method	Facility
715	Stainless Steel	Carbon	0.004 % to 1.50 %	IS 228 (Part-1)	Permanent
716		Chromium	1.50 % to 25.0 %	IS 228 (Part-6)	Permanent
717		Copper	1.5 % to 3.0 %	IS 228(P-15)	Permanent
718		Silicon	0.10 % to 3.0 %	ASTM E 353	Permanent
719		Sulphur	0.010 % to 0.10 %	IS 228 (Part-9)	Permanent
720		Sulphur	0.003 % to 0.5 %	ASTM E 353	Permanent
721		Vanadium	0.001 % to 1.5 %	ASTM E 353	Permanent
722		Copper	1.5 % to 3 %	ASTM E 353	Permanent
723		Manganese	0.01 % to 15 %	ASTM E 353	Permanent
724		Manganese	0.01 % to 2.0 %	IS 228 (Part-2)	Permanent
725		Molybdenum	0.10 % to 5.0 %	IS 228 (Part-7)	Permanent
726		Molybdenum	0.10 % to 5 %	ASTM E 353	Permanent
727		Nickel	0.05 % to 30 %	ASTM E 353	Permanent
728		Nickel	0.1 % to 30 %	IS 228 (Part-5)	Permanent
729		Nitrogen	0.05 % to 1.0 %	IS 228 (Part-23)	Permanent
730		Phosphorus	0.005 % to 0.2 %	ASTM E 353	Permanent
731		Phosphorus	0.010 % to 0.10 %	IS 228 (Part-3)	Permanent
732		Silicon	0.10 % to 3.0 %	IS 228 (Part-8)	Permanent
733		Silicon	0.10 % to 3.0 %	ASTM E 353	Permanent
734		Sulphur	0.010 % to 0.10 %	IS 228 (Part-9)	Permanent
735		Sulphur	0.003 % to 0.5 %	ASTM E 353	Permanent
736		Vanadium	0.001 % to 1.5 %	ASTM E 353	Permanent
737	Aluminium& its alloys	Chromium	0.01 % to 1.0 %	IS 504(P-8)	Permanent
738		Aluminium	Qualitative : Remainder	IS 504	Permanent



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739		Copper	0.01 % to 8 %	IS 504(P-3)	Permanent
740		Iron	0.05 % to 2 %	IS 504(P-2)	Permanent
741		Lead	0.001 % to 1.8 %	ASTM E 1251	Permanent
742		Magnesium	0.01 % to 1.0 %	IS 504(P-6)	Permanent
743		Manganese	0.01 % to 1.0 %	IS 504(P-5)	Permanent
744		Manganese	0.003 % to 2.2 %	IS 11305	Permanent
745		Nickel	0.01 % to 2 %	IS 504(P-7)	Permanent
746		Silicon	0.05 % to 15.0 %	IS 504(P-1)	Permanent
747		Titanium	0.01 % to 1.0 %	IS 504(P-11)	Permanent
748		Vanadium	0.01 % to 0.1 %	IS 504(P-12)	Permanent
749		Zinc	0.01 % to 2.0 %	IS 504(P-4)	Permanent
Discipline Chemical; Group: Plastic and Plastic products					
750	Chlorinated Polyvinyl Chloride (CPVC) Pipe	Chlorine Content	15 % to 85 %	IS 15778 (Annexure B)	Permanent
751	Plastic & its Product	Carbon Black Particle Size	0.010 micron to 0.05 micron	IS 4984	Permanent
752		Resistance to dichloromethane	Qualitative	IS 12235(P-11)	Permanent
753		Resistance to Sulphuric Acids	0.10 g to 0.50 g	IS 12235(P-7)	Permanent
754		Carbon Black Content	0.5 % to 60.0 %	IS 2530	Permanent
755		Ash Content	0.5 % to 50 %	IS 12235 (Part-17)	Permanent
756		Carbon Black Dispersion	Qualitative	IS 2530	Permanent
757		Effect of Liquid including Water Absorption	0.1 % to 20 %	IS 13360 (Part-8/Section-3)	Permanent
758		Glass Content	1 % to 50 %	IS 10661	Permanent
759		Migration	5 mg/l to 70 mg/l	IS 13360 (Part-8/Section-5)	Permanent



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760		Migration	1 mg/dm ² to 20 mg/dm ²	IS 9845	Permanent
761		Sulphated Ash Content	1.0 % to 20 %	IS 12235(p-17)	Permanent
762		Volatile Matter	0.1 % to 2 %	IS 4984	Permanent
763	Polyethylene (PE) Resin	Raw Material Carbon Black Master Batch (Antioxidant)	0.05 % to 1 %	IS 2530	Permanent
764		Raw Material Carbon Black Master Batch (Olefin Constituent)	1 % to 15 %	IS 10141	Permanent
765		Raw Material Carbon Black Master Batch (Polyethylene)	Qualitative	IS 4984	Permanent
766		Raw Material Carbon Black Master Batch (Toluene Extract)	0.01 % to 0.2 %	IS 12786	Permanent
767		Raw Material Carbon Black Master Batch (Volatile Matter)	0.1 % to 2 %	IS 2530	Permanent
768		Raw Material Carbon Black Master Batch (Volatile Matter)	50 mg/kg to 400 mg/kg	IS 4984	Permanent
769	Polyethylene Pipes for the Supply of Gaseous Fuel	Pigment Dispersion	Qualitative	IS 14885 (Annexure A)	Permanent
770		Volatile Content	10 mg/Kg to 500 mg/Kg	IS 4984 (Annexure C)	Permanent
771		Water Content	10 mg/Kg to 500 mg/Kg	IS 4984 (Annexure D)	Permanent
772	Polymer Powder	pH	1 to 14	IS 2530	Permanent
773		Relative Density	0.7 to 2	IS 9103	Permanent



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774	PVC Resin	Viscosity	50 Second to 300 Second	ASTM D 6910/ D 6910M	Permanent
775		K- Value	5 to 100	IS 4669	Permanent
776		Monomer Content (VCM Content)	1.0 ppm to 10.0 ppm	IS 10151	Permanent
777	Raw Material Granules	Volatile matter	50 mg/kg to 500 mg/kg	IS 4984	Permanent
778		Water Content	50 mg/kg to 500 mg/kg	IS 4984	Permanent
779	Unplasticized Polyvinyl Chloride (UPVC) Pipe / Chlorinated Polyvinyl Chloride (CPVC) Pipe	Effect on Water (Cadmium)	0.002 mg/l to 0.01 mg/l	IS 3025 (Part-41)	Permanent
780		Effect on Water (Lead)	0.01 mg/l to 1 mg/l	IS 3025 (Part-47)	Permanent
781		Effect on Water (Mercury)	0.001 mg/l to 0.1 mg/l	IS 3025 (Part-48)	Permanent
782		Effect on Water (Other Toxic Substances)	0.01 mg/l to 0.1 mg/l	IS 12235 (Part-10)	Permanent
783		Effect on Water (Tin)	0.01 mg/l to 0.1 mg/l	IS 12235(P-10)	Permanent
784	UPVC Injection Moulded Fittings	Sulphated Ash Content	1 % to 20 %	IS 14735 (Annex B)	Permanent
785		Titanium Dioxide Content	0.5 % to 5 %	IS 14735 (Annex A)	Permanent