



Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

CAB Name : Marutishri Calibrations and Testing Laboratory Pvt. Ltd.

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Address : S. No. 232/2, Atlas Metal Compound, Pune-Nashik Road,
Bhosari, Pune – 411039, Maharashtra

Issue date : 10.04.2026

Validity : 09.04.2030

Certificate No. : T-0051

Amendment date: 13.04.2026

Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
Discipline: Chemical		Group: Corrosion tests			
1	Anodized Products / Panels / Raw Materials	Salt Spray test	Qualitative	IS 9844	Permanent
2	Coated Products / Panels / Raw Materials	Salt Spray Test	Qualitative	ASTM B 117	Permanent
3	Coated Products / Panels / Raw Materials	Salt Spray test	Qualitative	ISO 9227	Permanent
Discipline: Chemical		Group: Metallic coatings & treatment solutions			
4	Hot-dip coated steel flat products for cold forming	Mass of Zinc Coating	50 g/m ² to 600 g/m ²	BS EN 10346	Permanent
5	Metallic Coating	Mass of Zinc Coating	50 g/m ² to 600 g/m ²	IS 6745	Permanent
6	Metallic Materials	Uniformity Of Zinc Coating	Qualitative	IS 2633	Permanent
Discipline: Chemical		Group: Metals & Alloys			
7	Aluminium& its Alloy's	Magnesium	0.10 % to 2.96 %	IS 11035	Permanent
8	Aluminium& its Alloy's	Antimony	0.0014 % to 0.0030 %	ASTM E 1251	Permanent
9	Aluminium & its Alloy's	Bismuth	0.030 % to 0.077 %	ASTM E 1251	Permanent
10	Aluminium & its Alloy's	Boron	0.00135 % to 0.00165 %	ASTM E 1251	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
11	Aluminium & its Alloy's	Chromium	0.09 % to 0.23 %	ASTM E 1251	Permanent
12	Aluminium & its Alloy's	Chromium	0.09 % to 0.27 %	IS 11035	Permanent
13	Aluminium & its Alloy's	Copper	0.22 % to 4.77 %	ASTM E 1251	Permanent
14	Aluminium & its Alloys	Copper	0.22 % to 4.77 %	IS 11035	Permanent
15	Aluminium & its Alloy's	Iron	0.20 % to 0.50 %	ASTM E 1251	Permanent
16	Aluminium & its Alloy's	Iron	0.087 % to 1.00 %	IS 11035	Permanent
17	Aluminium & its Alloy's	Lead	0.04 % to 0.26 %	ASTM E 1251	Permanent
18	Aluminium & its Alloy's	Magnesium	0.03 % to 2.96 %	ASTM E 1251	Permanent
19	Aluminium & its Alloy's	Manganese	0.0018 % to 0.27 %	ASTM E 1251	Permanent
20	Aluminium & its Alloy's	Manganese	0.10 % to 0.27 %	IS 11035	Permanent
21	Aluminium & its Alloy's	Nickel	0.005 % to 1.26 %	ASTM E 1251	Permanent
22	Aluminium & its Alloy's	Silicon	0.11 % to 11.46 %	ASTM E 1251	Permanent
23	Aluminium & its Alloy's	Silicon	0.40 % to 1.30 %	IS 11035	Permanent
24	Aluminium & its Alloy's	Tin	0.03 % to 0.15 %	ASTM E 1251	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
25	Aluminium & its Alloy's	Titanium	0.0058 % to 0.12 %	ASTM E 1251	Permanent
19	Aluminium & its Alloy's	Manganese	0.0018 % to 0.27 %	ASTM E 1251	Permanent
20	Aluminium & its Alloy's	Manganese	0.10 % to 0.27 %	IS 11035	Permanent
21	Aluminium & its Alloy's	Nickel	0.005 % to 1.26 %	ASTM E 1251	Permanent
22	Aluminium & its Alloy's	Silicon	0.11 % to 11.46 %	ASTM E 1251	Permanent
23	Aluminium & its Alloy's	Silicon	0.40 % to 1.30 %	IS 11035	Permanent
24	Aluminium & its Alloy's	Tin	0.03 % to 0.15 %	ASTM E 1251	Permanent
25	Aluminium & its Alloy's	Titanium	0.0058 % to 0.12 %	ASTM E 1251	Permanent
26	Aluminium & its Alloy's	Titanium	0.0058 % to 0.23 %	IS 11035	Permanent
27	Aluminium & its Alloy's	Vanadium	0.009 % to 0.022 %	ASTM E 1251	Permanent
28	Aluminium & its Alloy's	Zinc	0.0034 % to 5.67 %	ASTM E 1251	Permanent
29	Aluminium & its Alloy's	Zinc	0.10 % to 1.00 %	IS 11035	Permanent
30	Aluminium & its Alloy's	Zirconium	0.0014 % to 0.0037 %	ASTM E 1251	Permanent
31	Low Alloy Carbon Steel	Aluminium	0.005 % to 0.041 %	IS 8811	Permanent



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32	Low Alloy Carbon Steel	Aluminium	0.006 % to 0.041 %	ASTM E 415	Permanent
33	Low Alloy Carbon Steel	Aluminium	0.0012 % to 0.041 %	JIS G 1253	Permanent
34	Low Alloy Carbon Steel	Arsenic	0.001 % to 0.0065 %	JIS G 1253	Permanent
35	Low Alloy Carbon Steel	Arsenic	0.003 % to 0.0065 %	ASTM E 415	Permanent
36	Low Alloy Carbon Steel	Arsenic	0.005 % to 0.0065 %	IS 8811	Permanent
37	Low Alloy Carbon Steel	Boron	0.0005 % to 0.0013 %	IS 8811	Permanent
38	Low Alloy Carbon Steel	Boron	0.00079 % to 0.0014 %	ASTM E 415	Permanent
39	Low Alloy Carbon Steel	Boron	0.00079 % to 0.0013 %	JIS G 1253	Permanent
40	Low Alloy Carbon Steel	Carbon	0.0027 % to 0.51 %	JIS G 1253	Permanent
41	Low Alloy Carbon Steel	Carbon	0.02 % to 0.516 %	ASTM E 415	Permanent
42	Low Alloy Carbon Steel	Carbon	0.01 % to 0.51 %	IS 8811	Permanent
43	Low Alloy Carbon Steel	Chromium	0.05 % to 1.83 %	IS 8811	Permanent
44	Low Alloy Carbon Steel	Chromium	0.007 % to 1.83 %	ASTM E 415	Permanent
45	Low Alloy Carbon Steel	Chromium	0.0049 % to 1.82 %	JIS G 1253	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
46	Low Alloy Carbon Steel	Cobalt	0.001 % to 0.03 %	JIS G 1253	Permanent
47	Low Alloy Carbon Steel	Cobalt	0.006 % to 0.031 %	ASTM E 415	Permanent
48	Low Alloy Carbon Steel	Cobalt	0.01 % to 0.031 %	IS 8811	Permanent
49	Low Alloy Carbon Steel	Copper	0.01 % to 0.21 %	IS 8811	Permanent
50	Low Alloy Carbon Steel	Copper	0.006 % to 0.21 %	ASTM E 415	Permanent
51	Low Alloy Carbon Steel	Copper	0.001 % to 0.2 %	JIS G 1253	Permanent
52	Low Alloy Carbon Steel	Lead	0.001 % to 0.36 %	JIS G 1253	Permanent
53	Low Alloy Carbon Steel	Lead	0.002 % to 0.2 %	ASTM E 415	Permanent
54	Low Alloy Carbon Steel	Manganese	0.003 % to 2.25 %	JIS G 1253	Permanent
55	Low Alloy Carbon Steel	Manganese	0.03 % to 2 %	ASTM E 415	Permanent
56	Low Alloy Carbon Steel	Manganese	0.01 % to 2 %	IS 8811	Permanent
57	Low Alloy Carbon Steel	Molybdenum	0.01 % to 0.363 %	IS 8811	Permanent
58	Low Alloy Carbon Steel	Molybdenum	0.007 % to 0.363 %	ASTM E 415	Permanent
59	Low Alloy Carbon Steel	Molybdenum	0.001 % to 0.36 %	JIS G 1253	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
60	Low Alloy Carbon Steel	Nickel	0.002 % to 4.11 %	JIS G 1253	Permanent
61	Low Alloy Carbon Steel	Nickel	0.014 % to 4.11 %	ASTM E 415	Permanent
62	Low Alloy Carbon Steel	Nickel	0.05 % to 4.11 %	IS 8811	Permanent
63	Low Alloy Carbon Steel	Niobium	0.008 % to 0.076 %	IS 8811	Permanent
64	Low Alloy Carbon Steel	Niobium	0.008 % to 0.076 %	ASTM E 415	Permanent
65	Low Alloy Carbon Steel	Niobium	0.001 % to 0.12 %	JIS G 1253	Permanent
66	Low Alloy Carbon Steel	Nitrogen	0.0022 % to 0.013 %	JIS G 1253	Permanent
67	Low Alloy Carbon Steel	Nitrogen	0.01 % to 0.013 %	ASTM E 415	Permanent
68	Low Alloy Carbon Steel	Phosphorus	0.006 % to 0.075 %	ASTM E 415	Permanent
69	Low Alloy Carbon Steel	Phosphorus	0.005 % to 0.075 %	IS 8811	Permanent
70	Low Alloy Carbon Steel	Phosphorus	0.0027 % to 0.074 %	JIS G 1253	Permanent
71	Low Alloy Carbon Steel	Silicon	0.0022 % to 2.14 %	JIS G 1253	Permanent
72	Low Alloy Carbon Steel	Silicon	0.05 % to 2 %	IS 8811	Permanent
73	Low Alloy Carbon Steel	Silicon	0.02 % to 1.54 %	ASTM E 415	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
74	Low Alloy Carbon Steel	Sulphur	0.001 % to 0.055 %	ASTM E 415	Permanent
75	Low Alloy Carbon Steel	Sulphur	0.005 % to 0.1 %	IS 8811	Permanent
76	Low Alloy Carbon Steel	Sulphur	0.0009 % to 0.35 %	JIS G 1253	Permanent
77	Low Alloy Carbon Steel	Tin	0.006 % to 0.011 %	JIS G 1253	Permanent
78	Low Alloy Carbon Steel	Tin	0.003 % to 0.012 %	IS 8811	Permanent
79	Low Alloy Carbon Steel	Tin	0.005 % to 0.012 %	ASTM E 415	Permanent
80	Low Alloy Carbon Steel	Titanium	0.001 % to 0.083 %	ASTM E 415	Permanent
81	Low Alloy Carbon Steel	Titanium	0.0005 % to 0.082 %	JIS G 1253	Permanent
82	Low Alloy Carbon Steel	Vanadium	0.001 % to 0.58 %	JIS G 1253	Permanent
83	Low Alloy Carbon Steel	Vanadium	0.003 % to 0.58 %	ASTM E 415	Permanent
84	Low Alloy Carbon Steel	Vanadium	0.01 % to 0.58 %	IS 8811	Permanent
85	Copper & Copper Alloys	Silicon	0.017 % to 0.070 %	BS EN 15079	Permanent
86	Copper & Copper Alloys	Aluminium	0.017 % to 10.89 %	BS EN 15079	Permanent
87	Copper & Copper Alloys	Antimony	0.00027 % to 0.12 %	BS EN 15079	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
88	Copper & Copper Alloys	Arsenic	0.0006 % to 0.002 %	BS EN 15079	Permanent
89	Copper & Copper Alloys	Bismuth	0.0042 % to 0.11 %	BS EN 15079	Permanent
90	Copper & Copper Alloys	Cadmium	0.0152 % to 0.028 %	BS EN 15079	Permanent
91	Copper & Copper Alloys	Chromium	0.0011 % to 0.014 %	BS EN 15079	Permanent
92	Copper & Copper Alloys	Cobalt	0.0013 % to 0.11 %	BS EN 15079	Permanent
93	Copper & Copper Alloys	Iron	0.0024 % to 4.13 %	BS EN 15079	Permanent
94	Copper & Copper Alloys	Lead	0.0048 % to 1.97 %	BS EN 15079	Permanent
95	Copper & Copper Alloys	Magnesium	0.0009 % to 0.0011 %	BS EN 15079	Permanent
96	Copper & Copper Alloys	Manganese	0.018 % to 0.35 %	BS EN 15079	Permanent
97	Copper & Copper Alloys	Nickel	0.021 % to 5.30 %	BS EN 15079	Permanent
98	Copper & Copper Alloys	Phosphorous	0.0039 % to 0.021 %	BS EN 15079	Permanent
99	Copper & Copper Alloys	Selenium	0.0025 % to 0.0031 %	BS EN 15079	Permanent
100	Copper & Copper Alloys	Silver	0.005 % to 0.075 %	BS EN 15079	Permanent
101	Copper & Copper Alloys	Sulphur	0.041 % to 0.067 %	BS EN 15079	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
102	Copper & Copper Alloys	Tellurium	0.0009 % to 0.002 %	BS EN 15079	Permanent
103	Copper & Copper Alloys	Tin	0.011 % to 11.08 %	BS EN 15079	Permanent
104	Copper & Copper Alloys	Zinc	0.026 % to 43.35 %	BS EN 15079	Permanent
105	Cast Iron	Aluminum	0.027 % to 0.033 %	IS 15338	Permanent
106	Cast Iron	Carbon	2.84 % to 3.96 %	IS 15338	Permanent
107	Cast Iron	Carbon	2.84 % to 3.60 %	ASTM E 1999	Permanent
108	Cast Iron	Chromium	0.054 % to 0.11 %	ASTM E 1999	Permanent
109	Cast Iron	Chromium	0.054 % to 0.11 %	IS 15338	Permanent
110	Cast Iron	Copper	0.052 % to 0.064 %	ASTM E 1999	Permanent
111	Cast Iron	Copper	0.052 % to 0.064 %	IS 15338	Permanent
112	Cast Iron	Manganese	0.09 % to 0.89 %	ASTM E 1999	Permanent
113	Cast Iron	Manganese	0.21 % to 0.89 %	IS 15338	Permanent
114	Cast Iron	Molybdenum	0.010 % to 0.107 %	IS 15338	Permanent
115	Cast Iron	Molybdenum	0.0225 % to 0.11 %	ASTM E 1999	Permanent
116	Cast Iron	Nickel	0.0558 % to 1.87 %	ASTM E 1999	Permanent
117	Cast Iron	Nickel	1.00 % to 1.86 %	IS 15338	Permanent
118	Cast Iron	Phosphorus	0.0099 % to 0.12 %	IS 15338	Permanent
119	Cast Iron	Phosphorus	0.0099 % to 0.12 %	ASTM E 1999	Permanent
120	Cast Iron	Silicon	0.77 % to 1.93 %	ASTM E 1999	Permanent
121	Cast Iron	Silicon	0.77 % to 1.936 %	IS 15338	Permanent
122	Cast Iron	Sulphur	0.045 % to 0.055 %	IS 15338	Permanent



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123	Cast Iron	Sulphur	0.045 % to 0.055 %	ASTM E 1999	Permanent
124	Cast Iron	Tin	0.009 % to 0.011 %	ASTM E 1999	Permanent
125	Cast Iron	Titanium	0.036 % to 0.12 %	ASTM E 1999	Permanent
126	Cast Iron	Vanadium	0.011 % to 0.054 %	ASTM E 1999	Permanent
127	Cast Iron	Vanadium	0.01 % to 0.054 %	IS 15338	Permanent
128	Stainless Steel	Molybdenum	0.01 % to 3.00 %	IS 9879	Permanent
129	Stainless Steel	Sulphur	0.003 % to 0.071 %	ASTM E 1086	Permanent
130	Stainless Steel	Carbon	0.014 % to 0.15 %	IS 9879	Permanent
131	Stainless Steel	Carbon	0.014 % to 0.15 %	ASTM E 1086	Permanent
132	Stainless Steel	Carbon	0.014 % to 0.15 %	JIS G 1253	Permanent
133	Stainless Steel	Chromium	17.00 % to 23.00 %	ASTM E 1086	Permanent
134	Stainless Steel	Chromium	10.85 % to 20.00 %	IS 9879	Permanent
135	Stainless Steel	Chromium	10.85 % to 24.86 %	JIS G 1253	Permanent
136	Stainless Steel	Copper	0.05 % to 0.5 %	IS 9879	Permanent
137	Stainless Steel	Copper	0.05 % to 0.30 %	ASTM E 1086	Permanent
138	Stainless Steel	Copper	0.05 % to 3.4 %	JIS G 1253	Permanent
139	Stainless Steel	Manganese	0.041 % to 2 %	JIS G 1253	Permanent
140	Stainless Steel	Manganese	0.41 % to 2.00 %	IS 9879	Permanent
141	Stainless Steel	Manganese	0.414 % to 2.00 %	ASTM E 1086	Permanent
142	Stainless Steel	Molybdenum	0.01 % to 3.00 %	ASTM E 1086	Permanent
143	Stainless Steel	Molybdenum	0.01 % to 4.39 %	JIS G 1253	Permanent
144	Stainless Steel	Nickel	7.50 % to 13.00 %	ASTM E 1086	Permanent
145	Stainless Steel	Nickel	2.0 % to 15.0 %	IS 9879	Permanent



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146	Stainless Steel	Nickel	0.085 % to 26.84 %	JIS G 1253	Permanent
147	Stainless Steel	Nitrogen	0.018 % to 0.15 %	JIS G 1253	Permanent
148	Stainless Steel	Phosphorus	0.012 % to 0.038 %	ASTM E 1086	Permanent
149	Stainless Steel	Phosphorus	0.012 % to 0.038 %	IS 9879	Permanent
150	Stainless Steel	Phosphorus	0.013 % to 0.038 %	JIS G 1253	Permanent
151	Stainless Steel	Silicon	0.26 % to 0.54 %	JIS G 1253	Permanent
152	Stainless Steel	Silicon	0.26 % to 0.54 %	IS 9879	Permanent
153	Stainless Steel	Silicon	0.26 % to 0.54 %	ASTM E 1086	Permanent
154	Stainless Steel	Sulphur	0.002 % to 0.10 %	IS 9879	Permanent
155	Stainless Steel	Sulphur	0.00027 % to 0.5 %	JIS G 1253	Permanent
156	Stainless Steel	Titanium	0.0011 % to 0.165 %	JIS G 1253	Permanent
157	Tool Steel	Aluminium	0.005 % to 0.0066 %	JIS G 1253	Permanent
158	Tool Steel	Arsenic	0.0023 % to 0.0028 %	JIS G 1253	Permanent
159	Tool Steel	Carbon	0.34 % to 1.82 %	JIS G 1253	Permanent
160	Tool Steel	Chromium	4.12 % to 12.95 %	JIS G 1253	Permanent
161	Tool Steel	Cobalt	0.015 % to 0.018 %	JIS G 1253	Permanent
162	Tool Steel	Copper	0.039 % to 0.085 %	JIS G 1253	Permanent
163	Tool Steel	Manganese	0.26 % to 0.30 %	JIS G 1253	Permanent
164	Tool Steel	Molybdenum	0.70 % to 1.41 %	JIS G 1253	Permanent
165	Tool Steel	Nickel	0.13 % to 0.16 %	JIS G 1253	Permanent
166	Tool Steel	Nitrogen	0.028 % to 0.034 %	JIS G 1253	Permanent
167	Tool Steel	Phosphorus	0.019 % to 0.032 %	JIS G 1253	Permanent
168	Tool Steel	Silicon	0.31 % to 0.97 %	JIS G 1253	Permanent



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169	Tool Steel	Sulphur	0.0006 % to 0.023 %	JIS G 1253	Permanent
170	Tool Steel	Tin	0.006 % to 0.010 %	JIS G 1253	Permanent
171	Tool Steel	Titanium	0.0022 % to 0.027 %	JIS G 1253	Permanent
172	Tool Steel	Tungsten	0.031 % to 1.00 %	JIS G 1253	Permanent
173	Tool Steel	Vanadium	0.32 % to 0.77 %	JIS G 1253	Permanent
Discipline: Mechanical Group: Mechanical Properties of Metals					
174	Copper and copper alloy (pipe, tube)	Flaring Test	Qualitative: Mandrel 30, 45, 60 Deg	ASTM B 153	Permanent
175	Carbon Steel and Alloy Steel-Fasteners-Bolts, Screws and Studs	Proof Load Test	10 KN to 400 KN	IS 1367 PART 3	Permanent
176	Carbon Steel and Alloy Steel-Fasteners-Bolts, Screws and Studs	Proof Load Test	10 KN to 400 KN	ISO 898-1	Permanent
177	Carbon Steel and Alloy Steel-Threaded Fasteners (Nut)	Proof Load Test	10 KN to 400 KN	IS 1367 PART 6	Permanent
178	Carbon Steel and Alloy Steel-Threaded Fasteners (Nut)	Proof Load Test	10 KN to 400 KN	ISO 898 Paart-2	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
179	Ferrous materials Fasteners - Nut, Bolt, Stud	Proof Load Test	10 KN to 400 KN	ASTM A 193	Permanent
180	Ferrous Metal	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	IS 1599	Permanent
181	Ferrous Metal	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	ASTM E290	Permanent
182	Ferrous Metal	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	ISO 7438	Permanent
183	Ferrous Metal	Brinell Hardness (5/750 kgf)	95 HBW to 653 HBW	ASME SEC II-A (SA 370)	Permanent
184	Ferrous Metal	Brinell Hardness (5/750 kgf)	95 HBW to 653 HBW	ASTM A 370	Permanent
185	Ferrous Metal	Jominy End quench hardened ability test	Qualitative	IS 3848	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
186	Ferrous Metal	Micro Vickers Hardness (HV 0.1)	50 HV0.1 to 900 HV0.1	ASTM E 384	Permanent
187	Ferrous Metal	Micro Vickers Hardness (HV 0.1)	50 HV0.1 to 900 HV0.1	ISO 6507 Part-1	Permanent
188	Ferrous Metal	Micro Vickers Hardness (HV 0.1)	50 HV0.1 to 900 HV0.1	IS 1501 Part-1	Permanent
189	Ferrous Metal	Micro Vickers Hardness (HV 0.2)	50 HV0.2 to 900 HV0.2	ASTM E 384	Permanent
190	Ferrous Metal	Micro Vickers Hardness (HV 0.2)	50 HV0.2 to 900 HV0.2	ISO 6507 Part-1	Permanent
191	Ferrous Metal	Micro Vickers Hardness (HV 0.2)	50 HV0.2 to 900 HV0.2	IS 1501 Part-1	Permanent
192	Ferrous Metal	Micro Vickers Hardness (HV 0.3)	50 HV0.3 to 900 HV0.3	ASTM E 384	Permanent
193	Ferrous Metal	Micro Vickers Hardness (HV 0.3)	50 HV0.3 to 900 HV0.3	ISO 6507 Part-1	Permanent
194	Ferrous Metal	Micro Vickers Hardness (HV 0.3)	50 HV0.3 to 900 HV0.3	IS 1501 Part-1	Permanent
195	Ferrous Metal	Micro Vickers Hardness (HV 0.5)	50 HV0.5 to 900 HV0.5	ASTM E 384	Permanent
196	Ferrous Metal	Micro Vickers Hardness (HV 0.5)	50 HV0.5 to 900 HV0.5	ISO 6507 Part-1	Permanent
197	Ferrous Metal	Micro Vickers Hardness (HV 0.5)	50 HV0.5 to 900 HV0.5	IS 1501 Part-1	Permanent
198	Ferrous Metal	Micro Vickers Hardness (HV 1)	50 HV1 to 900 HV1	ASTM E 92	Permanent
199	Ferrous Metal	Micro Vickers Hardness (HV 1)	50 HV1 to 900 HV1	ASTM E 384	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
200	Ferrous Metal	Micro Vickers Hardness (HV 1)	50 HV1 to 900 HV1	ISO 6507 Part-1	Permanent
201	Ferrous Metal	Micro Vickers Hardness (HV 1)	50 HV1 to 900 HV1	IS 1501 Part-1	Permanent
202	Ferrous Metal	Rockwell Hardness - (HRA)	20 HRA to 88 HRA	ASME SEC II-A (SA 370)	Permanent
203	Ferrous Metal	Rockwell Hardness - (HRA)	20 HRA to 88 HRA	ASTM A 370	Permanent
204	Ferrous Metal	Rockwell Hardness - (HRBW)	20 HRBW to 100 HRBW	IS 1586-1	Permanent
205	Ferrous Metal	Rockwell Hardness - (HRBW)	20 HRBW to 100 HRBW	ASTM E 18	Permanent
206	Ferrous Metal	Rockwell Hardness - (HRBW)	20 HRBW to 100 HRBW	ISO 6508 PART-1	Permanent
207	Ferrous Metal	Rockwell Hardness - (HRBW)	20 HRBW to 100 HRBW	ASME SEC II-A (SA 370)	Permanent
208	Ferrous Metal	Rockwell Hardness - (HRBW)	20 HRBW to 100 HRBW	ASTM A 370	Permanent
209	Ferrous Metal	Rockwell Hardness - (HRC)	20 HRC to 70 HRC	IS 1586 Part-1	Permanent
210	Ferrous Metal	Rockwell Hardness - (HRC)	20 HRC to 70 HRC	ASTM E 18	Permanent
211	Ferrous Metal	Rockwell Hardness - (HRC)	20 HRC to 70 HRC	ISO 6508 PART-1: 2016	Permanent
212	Ferrous Metal	Rockwell Hardness - (HRC)	20 HRC to 70 HRC	ASME SEC II-A (SA 370)	Permanent
213	Ferrous Metal	Rockwell Hardness - (HRC)	20 HRC to 70 HRC	ASTM A 370	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
214	Ferrous Metal	Rockwell Superficial Hardness (HR15N)	70 HR15N to 91 HR15N	ASME SEC II-A (SA 370)	Permanent
215	Ferrous Metal	Rockwell Superficial Hardness (HR15N)	70 HR15N to 91 HR15N	ASTM A 370	Permanent
216	Ferrous Metal	Rockwell Superficial Hardness (HR15TW)	73 HR15TW to 93 HR15TW	ASME SEC II-A (SA 370)	Permanent
217	Ferrous Metal	Rockwell Superficial Hardness (HR15TW)	73 HR15TW to 93 HR15TW	ASTM A 370	Permanent
218	Ferrous Metal	Rockwell Superficial Hardness (HR30N)	42 HR30N to 80 HR30N	ASTM A 370	Permanent
219	Ferrous Metal	Rockwell Superficial Hardness (HR30N)	42 HR30N to 80 HR30N	ASME SEC II-A (SA 370)	Permanent
220	Ferrous Metal	Rockwell Superficial Hardness (HR30TW)	43 HR30TW to 82 HR30TW	ASME SEC II-A (SA 370)	Permanent
221	Ferrous Metal	Rockwell Superficial Hardness (HR30TW)	43 HR30TW to 82 HR30TW	ASTM A 370	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
222	Ferrous Metal	Rockwell Superficial Hardness (HR45N)	20 HR45N to 70 HR45N	ASTM A 370	Permanent
223	Ferrous Metal	Rockwell Superficial Hardness (HR45N)	20 HR45N to 70 HR45N	ASME SEC II-A (SA 370)	Permanent
224	Ferrous Metal	Rockwell Superficial Hardness (HR45TW)	12 HR45TW to 72 HR45TW	ASME SEC II-A (SA 370)	Permanent
225	Ferrous Metal	Rockwell Superficial Hardness (HR45TW)	12 HR45TW to 72 HR45TW	ASTM A 370	Permanent
226	Ferrous Metal	Vickers Hardness (HV 10)	50 HV10 to 900 HV10	ASTM E 92	Permanent
227	Ferrous Metal	Vickers Hardness (HV 10)	50 HV10 to 900 HV10	ASTM E 384	Permanent
228	Ferrous Metal	Vickers Hardness (HV 10)	50 HV10 to 900 HV10	ISO 6507 Part-1	Permanent
229	Ferrous Metal	Vickers Hardness (HV 10)	50 HV10 to 900 HV10	IS 1501 Part-1	Permanent
230	Ferrous Metal	Vickers Hardness (HV 20)	50 HV20 to 900 HV20	ASTM E 92	Permanent
231	Ferrous Metal	Vickers Hardness (HV 20)	50 HV20 to 900 HV20	ASTM E 384	Permanent
232	Ferrous Metal	Vickers Hardness (HV 20)	50 HV20 to 900 HV20	ISO 6507 Part-1	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
233	Ferrous Metal	Vickers Hardness (HV 20)	50 HV 20 to 900 HV 20	IS 1501 Part-1	Permanent
234	Ferrous Metal	Vickers Hardness (HV 30)	50 HV 30 to 900 HV 30	ASTM E 92	Permanent
235	Ferrous Metal	Vickers Hardness (HV 30)	50 HV 30 to 900 HV 30	ASTM E 384	Permanent
236	Ferrous Metal	Vickers Hardness (HV 30)	50 HV 30 to 900 HV 30	ISO 6507 Part-1	Permanent
237	Ferrous Metal	Vickers Hardness (HV 30)	50 HV 30 to 900 HV 30	IS 1501 Part-1	Permanent
238	Ferrous Metal	Vickers Hardness (HV 5)	50 HV5 to 900 HV5	ASTM E 92	Permanent
239	Ferrous Metal	Vickers Hardness (HV 5)	50 HV5 to 900 HV5	ASTM E 384	Permanent
240	Ferrous Metal	Vickers Hardness (HV 5)	50 HV5 to 900 HV5	ISO 6507 Part-1	Permanent
241	Ferrous Metal	Vickers Hardness (HV 5)	50 HV5 to 900 HV5	IS 1501 Part-1	Permanent
242	Ferrous Metal	Vickers Hardness (HV 50)	50 HV 50 to 900 HV 50	ASTM E 92	Permanent
243	Ferrous Metal	Vickers Hardness (HV 50)	50 HV 50 to 900 HV 50	ASTM E 384	Permanent
244	Ferrous Metal	Vickers Hardness (HV 50)	50 HV 50 to 900 HV 50	ISO 6507 Part-1	Permanent
245	Ferrous Metal	Vickers Hardness (HV 50)	50 HV 50 to 900 HV 50	IS 1501 Part-1	Permanent
246	Ferrous Metal, Pipe	Crushing Test	Qualitative	IS 3601	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
247	Ferrous Metal, Pipes	Flattening Test	Qualitative	ASTM A 530	Permanent
248	Non-Ferrous Metal	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	ISO 7438	Permanent
249	Stainless Steel, Alloy Products	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	ASTM A370	Permanent
250	Stainless Steel, Alloy Products	Brinell Hardness (10/3000 kgf)	95 HBW to 653 HBW	ASME SEC II-A (SA 370)	Permanent
251	Stainless Steel, Alloy Products	Brinell Hardness (10/3000 kgf)	95 HBW to 653 HBW	ASTM A 370	Permanent
252	Stainless Steel, Alloy Products	Crushing Test	Qualitative	ASTM A 370	Permanent
253	Stainless Steel, Alloy Products	Flaring Test	Qualitative: Mandrel 30, 45, 60 Deg	ASTM A 370	Permanent
254	Stainless Steel, Alloy Products	Flattening Test	Qualitative	ASTM A 370	Permanent
255	Stainless Steel, Alloy Products	Tensile Test (% Reduction in area)	1 % to 99 %	ASTM A370	Permanent
256	Stainless Steel, Alloy Products	Tensile Test (%Elongation)	1 % to 99 %	ASTM A370	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
257	Stainless Steel, Alloy Products	Tensile Test (0.2% Proof Stress)	50 Mpa to 2000 Mpa	ASTM A370	Permanent
258	Stainless Steel, Alloy Products	Tensile Test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	ASTM A370	Permanent
259	Stainless Steel, Alloy Products	Tensile Test (Yield Strength)	50 Mpa to 2000 Mpa	ASTM A370	Permanent
260	Steel Products (Nut & Bolts)	Proof Load Test	10 KN to 400 KN	ASTM A 370	Permanent
261	TMT Bar	Re bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	IS 1786	Permanent
262	Welded Joints and Weld Metal	Tensile Test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	IS 3600 Part-3	Permanent
263	Aluminium & its alloy	Tensile Test (% Elongation)	1 % to 99 %	ASTM B 557	Permanent
264	Aluminium & its alloy	Tensile Test (% Reduction in area)	1 % to 99 %	ASTM B 557	Permanent
265	Aluminium & its alloy	Tensile Test (0.2% Proof Stress)	50 Mpa to 2000 Mpa	ASTM B 557	Permanent
266	Aluminium & its alloy	Tensile Test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	ASTM B 557	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
267	Aluminium & its alloy	Tensile Test (Yield Strength)	50 Mpa to 2000 Mpa	ASTM B 557	Permanent
268	Aluminium Alloy and its product	Flattening Test	Qualitative	ASTM B 210	Permanent
269	Copper and copper alloy (pipe, tube)	Flattening Test	Qualitative	ASTM B 968	Permanent
270	Non-Ferrous Metal	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	IS 1599	Permanent
271	Non-Ferrous Metal	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	ASTM E 290	Permanent
272	Externally & Internally Threaded Fasteners, Washers, Direct tension indicators & Rivets	Tensile Test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	ASTM F606	Permanent
273	Externally & Internally Threaded	Tensile Test (Yield Strength)	50 Mpa to 2000 Mpa	ASTM F606	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	Fasteners, Washers, Direct tension indicators & Rivets				
274	Ferrous Metal	Brinell Hardness (5/750 kgf)	95 HBW to 653 HBW	ASTM E10	Permanent
275	Metallic Material	Brinell Hardness (10/3000 kgf)	95 HBW to 653 HBW	IS 1500 (Part-1)	Permanent
276	Metallic Material	Brinell Hardness (10/3000 kgf)	95 HBW to 653 HBW	ASTM E10	Permanent
277	Metallic Material	Brinell Hardness (10/3000 kgf)	95 HBW to 653 HBW	ISO 6506 Part-1	Permanent
278	Metallic Material	Brinell Hardness (5/750 kgf)	95 HBW to 653 HBW	IS 1500 Part-1	Permanent
279	Metallic Material	Brinell Hardness (5/750 kgf)	95 HBW to 653 HBW	ISO 6506 Part-1	Permanent
280	Metallic Material	Charpy V-notch Impact Test (- 196Å°C to Room Temperature)	10 Joule to 300 Joule	IS 1757 Part-1	Permanent
281	Metallic Material	Charpy V-notch Impact Test (- 196Å°C to Room Temperature)	10 Joule to 300 Joule	ISO 148 Part-1	Permanent
282	Metallic Material	Coating Thickness by DFT meter	1 Micron to 1000 Micron	IS 3203	Permanent
283	Metallic Material	Flattening Test	Qualitative	ISO8492	Permanent
284	Metallic Material	Flattening Test	Qualitative	IS 2328	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
285	Metallic Material	Rockwell Hardness - (HRA)	20 HRA to 88 HRA	IS 1586 Part-1	Permanent
286	Metallic Material	Rockwell Hardness - (HRA)	20 HRA to 88 HRA	ASTM E 18	Permanent
287	Metallic Material	Rockwell Hardness - (HRA)	20 HRA to 88 HRA	ISO 6508 PART-1	Permanent
288	Metallic Material	Rockwell Superficial Hardness (HR15N)	70 HR15N to 91 HR15N	IS 1586-1	Permanent
289	Metallic Material	Rockwell Superficial Hardness (HR15N)	70 HR15N to 91 HR15N	ASTM E 18	Permanent
290	Metallic Material	Rockwell Superficial Hardness (HR15N)	70 HR15N to 91 HR15N	ISO 6508 PART-1	Permanent
291	Metallic Material	Rockwell Superficial Hardness (HR15TW)	73 HR15TW to 93 HR15TW	IS 1586 Part-1	Permanent
292	Metallic Material	Rockwell Superficial Hardness (HR15TW)	73 HR15TW to 93 HR15TW	ASTM E 18	Permanent
293	Metallic Material	Rockwell Superficial Hardness (HR15TW)	73 HR15TW to 93 HR15TW	ISO 6508 PART-1	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
294	Metallic Material	Rockwell Superficial Hardness (HR30N)	42 HR30N to 80 HR30N	IS 1586 Part-1	Permanent
295	Metallic Material	Rockwell Superficial Hardness (HR30N)	42 HR30N to 80 HR30N	ASTM E 18	Permanent
296	Metallic Material	Rockwell Superficial Hardness (HR30N)	42 HR30N to 80 HR30N	ISO 6508 PART-1	Permanent
297	Metallic Material	Rockwell Superficial Hardness (HR30TW)	43 HR30TW to 82 HR30TW	IS 1586 Part-1	Permanent
298	Metallic Material	Rockwell Superficial Hardness (HR30TW)	43 HR30TW to 82 HR30TW	ASTM E 18	Permanent
299	Metallic Material	Rockwell Superficial Hardness (HR30TW)	43 HR30TW to 82 HR30TW	ISO 6508 PART-1	Permanent
300	Metallic Material	Rockwell Superficial Hardness (HR45N)	20 HR45N to 70 HR45N	IS 1586 Part-1	Permanent
301	Metallic Material	Rockwell Superficial Hardness (HR45N)	20 HR45N to 70 HR45N	ASTM E 18	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
302	Metallic Material	Rockwell Superficial Hardness (HR45N)	20 HR45N to 70 HR45N	ISO 6508 PART-1	Permanent
303	Metallic Material	Rockwell Superficial Hardness (HR45TW)	12 HR45TW to 72 HR45TW	IS 1586-1	Permanent
304	Metallic Material	Rockwell Superficial Hardness (HR45TW)	12 HR45TW to 72 HR45TW	ASTM E 18	Permanent
305	Metallic Material	Rockwell Superficial Hardness (HR45TW)	12 HR45TW to 72 HR45TW	ISO 6508Part-1	Permanent
306	Metallic Material	Tensile Test (% Reduction in area)	1 % to 99 %	ASTM E8/E8M	Permanent
307	Metallic material	Tensile Test (% Reduction in area)	1 % to 99 %	JIS Z 2241	Permanent
308	Metallic material	Tensile Test (% Reduction in area)	1 % to 99 %	ISO 6892-1	Permanent
309	Metallic material	Tensile Test (% Reduction in area)	1 % to 99 %	IS 1608-1	Permanent
310	Metallic material	Tensile Test (0.2% Proof Stress)	50 Mpa to 2000 Mpa	ASTM E8/E8M	Permanent
311	Metallic material	Tensile Test (0.2% Proof Stress)	50 Mpa to 2000 Mpa	JIS Z 2241	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
312	Metallic material	Tensile Test (0.2% Proof Stress)	50 Mpa to 2000 Mpa	ISO 6892-1	Permanent
313	Metallic material	Tensile Test (0.2% Proof Stress)	50 Mpa to 2000 Mpa	IS 1608-1	Permanent
314	Metallic material	Tensile Test (elongation)	1 % to 99 %	IS 1608-1	Permanent
315	Metallic material	Tensile Test (elongation)	1 % to 99 %	ASTM E8/E8M	Permanent
316	Metallic material	Tensile Test (elongation)	1 % to 99 %	ISO 6892-1	Permanent
317	Metallic material	Tensile Test (elongation)	1 % to 99 %	JIS Z 2241	Permanent
318	Metallic material	Tensile Test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	ASTM E8/E8M	Permanent
319	Metallic material	Tensile Test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	JIS Z 2241	Permanent
320	Metallic material	Tensile Test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	ISO 6892 PART-1	Permanent
321	Metallic material	Tensile Test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	IS 1608 PART-1	Permanent
322	Metallic material	Tensile Test (Yield Strength)	50 Mpa to 2000 Mpa	ASTM E8/E8M	Permanent
323	Metallic material	Tensile Test (Yield Strength)	50 Mpa to 2000 Mpa	ISO 6892 PART-1	Permanent



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Amendment date: 13.04.2026

Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
324	Metallic material	Tensile Test (Yield Strength)	50 Mpa to 2000 Mpa	IS 1608 PART-1	Permanent
325	Metallic material	Tensile Test (Yield Strength)	50 Mpa to 2000 Mpa	JIS Z 2241	Permanent
326	Metallic Pipe	Flaring Test	Qualitative: Mandrel 30, 45, 60 Deg	IS 2335	Permanent
327	Metallic Pipe	Flaring Test	Qualitative: Mandrel 30, 45, 60 Deg	ISO 8493	Permanent
328	Aluminum Fusion	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	ISO 15614 Part-2	Permanent
329	Aluminum Fusion	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	ISO 9606 Part-2	Permanent
330	Aluminum Fusion	Fracture Test	Qualitative	ISO 9606 Part-2	Permanent
331	Aluminum Fusion	Fracture Test	Qualitative	ISO 15614 Part-2	Permanent
332	Aluminum Fusion	Tensile Test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	ISO 15614 Part-2	Permanent
333	Ferrous & Non Ferrous metal weldments for	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18,	AWS B4.0	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	procedure & performance qualifications		20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100		
334	Ferrous & Non Ferrous metal weldments for procedure & performance qualifications	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	AWS D1.1	Permanent
335	Ferrous & Non Ferrous metal weldments for procedure & performance qualifications	Bend Test (Root, Face, Side)	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	ASME SEC IX (Clause QW 160, 161, 162, 163)	Permanent
336	Ferrous & Non Ferrous metal weldments for procedure & performance qualifications	Tensile Test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	AWS D1.6	Permanent
337	Ferrous & Non Ferrous metal weldments for procedure & performance qualifications	Tensile Test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	AWS B4.0	Permanent
338	Ferrous & Non Ferrous metal weldments for	Tensile Test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	AWS D1.1	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	procedure & performance qualifications				
339	Fusion Welded Joints and Weld Metal	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	IS 3600 Part-7	Permanent
340	Fusion Welded Joints and Weld Metal in Steel	Tensile Test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	IS 3600 Part-4	Permanent
341	Fusion Welded Joints and Weld Metal in Steel	Tensile test (Yield Strength)	50 Mpa to 2000 Mpa	IS 3600 Part-4	Permanent
342	Fusion Welding	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	IS 7310 Par-1	Permanent
343	Fusion Welding	Tensile test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	IS 7310 Par-1	Permanent
344	Fusion welding of steel	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30,	IS 7307 Part-1	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
			32, 36, 38, 40, 50, 60, 80, 100		
345	Fusion welding of steel	Tensile test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	IS 7307 Part-1	Permanent
346	Metallic Material Fusion	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	ISO 15614 Part-1	Permanent
347	Metallic Material Fusion	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	ISO 9606 Part-1	Permanent
348	Metallic Material Fusion	Charpy V-notch Impact Test (- 196Å°C to Room Temperature)	10 Joule to 300 Joule	ISO 15614 Part-1	Permanent
349	Metallic Material Fusion	Fracture Test	Qualitative	ISO 9606 Part-1	Permanent
350	Metallic Material Fusion	Tensile Test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	ISO 15614 Part-1	Permanent
351	Metallic Material Fusion	Vickers Hardness (HV 10)	50 HV10 to 900 HV10	ISO 15614 Part-1	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
352	Stainless steel weldments for procedure & performance qualifications	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	AWS D1.6	Permanent
353	Weld in Metallic material	Tensile Test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	ISO 4136	Permanent
354	Weld metal in fusion metal joints	Fracture Test	Qualitative	ISO 9017	Permanent
355	Weld metal in fusion metal joints	Fracture Test	Qualitative	IS 3600-8	Permanent
356	Weld metal in fusion metal joints	Fracture Test	Qualitative	AWS D1.6	Permanent
357	Weld metal in fusion weld joints	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	ISO 5178	Permanent
358	Weld metal in fusion weld joints	Longitudinal Tensile Test (% Elongation)	1 % to 99 %	ISO 5178	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
359	Weld metal in fusion weld joints	Tensile Test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	ISO 5178	Permanent
360	Weld Products	Charpy V notch Impact Test Temp Room to - 196Å°	10 Joule to 300 Joule	IS 3600 Part-2	Permanent
361	Weld Products	Fracture Test	Qualitative	ASME SECTION IX (QW 182)	Permanent
362	Weld Products	Fracture Test	Qualitative	AWS D1.1	Permanent
363	Weld Products	Pull Out Test	Qualitative	ASME SECTION IX	Permanent
364	Weld Products	Shear Load Test	Qualitative	ASME SECTION IX	Permanent
365	Metallic material	Shear Load Test	50 Mpa to 2000 Mpa	IS 5242: 1979	Permanent
366	Weld Products	Tensile test (Ultimate Tensile Strength)	50 Mpa to 2000 Mpa	ASME SECTION IX (QW 150, QW 151, QW 152, QW 153)	Permanent
367	Welded Joints and Weld Metal	Bend Test	Qualitative : Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	IS 3600 Part-5	Permanent
368	Welds in Ferrous and Non-Ferrous Metal	Bend Test	Qualitative: Mandrel Dia. (MM) 2,4,6,8,10,12,14,16,18, 20, 22, 24, 26, 28, 30, 32, 36, 38, 40, 50, 60, 80, 100	ISO 5173	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
369	Welds in Metallic material	Charpy V-notch Impact Test (- 195Å°C to Room Temperature)	10 Joule to 300 Joule	ISO 9016	Permanent
370	Welds in Metallic material	Charpy V-notch Impact Test (- 196Å°C to Room Temperature)	0 Joule to 300 Joule	IS 3600-2	Permanent
371	Welds in Metallic materials	Vickers Hardness (HV 1)	50 HV1 to 900 HV1	ISO 9015 Part-1	Permanent
372	Welds in Metallic materials	Vickers Hardness (HV 50)	50 HV50 to 900 HV50	ISO 9015 Part-1	Permanent
373	Welds in Metallic materials	Vickers Hardness (HV5)	50 HV5 to 900 HV5	ISO 9015 Part-1	Permanent

Discipline: Mechanical

Group: Metallography Test

374	Austenitic Stainless steel	Detecting Susceptibility to Intergranular attack in Austenitic stainless steel (Practice B)	Qualitative	ASTM A 262	Permanent
375	Austenitic Stainless steel	Detecting Susceptibility to Intergranular attack in Austenitic stainless steel (Practice C)	Qualitative	ASTM A 262	Permanent
376	Austenitic Stainless steel	Detecting Susceptibility to	Qualitative	ASTM A 262	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
		Intergranular attack in Austenitic stainless steel (Practice E)			
377	Austenitic Stainless steel	Detecting Susceptibility to Intergranular attack in Austenitic stainless steel (Practice F)	Qualitative	ASTM A 262	Permanent
378	Austenitic Stainless steel	Intergranular attack in Austenitic stainless steel (Practice A)	Qualitative	ASTM A 262	Permanent
379	Cast Iron	Graphite type, Distribution, Size, Nodularity and nodule count	Qualitative	IS 7754	Permanent
380	Cast Iron	Graphite type, Distribution, Size, Nodularity and nodule count	Qualitative	ASTM A247	Permanent
381	Cast Iron	Graphite type, Distribution, Size, Nodularity and nodule count	Qualitative	ISO 945-1	Permanent
382	Duplex Austenitic Stainless steel	Detecting detrimental	Qualitative	ASTM A923	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
		intermetallic phase (Method A)			
383	Duplex Austenitic Stainless steel	Detecting detrimental intermetallic phase (Method C)	Qualitative	ASTM A923	Permanent
384	Ferrous material, alloys & Products (steel bar, blooms)	Macro Etching Testing	Qualitative	ASTM E381	Permanent
385	Ferrous materials Fasteners - Nut, Bolt, Stud.	Proof Load Test	10 KN to 400 KN	ASTM A 194	Permanent
386	Ferrous Metal	Case depth (by Microhardness Method)	0 mm to 25 mm	ISO 18203	Permanent
387	Ferrous Metal	case depth (by Microscopic Method)	0 mm to 1 mm	ISO 18203	Permanent
388	Ferrous Metal	Coating Thickness (Microscopic)	0 mm to 1 mm	ASTM B 487	Permanent
389	Ferrous Metal	Depth of decarb layer	1 Micron to 1000 Micron	ASTM E1077	Permanent
390	Ferrous Metal	Depth of decarb layer	1 Micron to 1000 Micron	IS 6396	Permanent
391	Ferrous Metal	Effective case depth (by Microhardness Method)	0 mm to 25 mm	IS 6416	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
392	Ferrous Metal	Effective case depth (by Microscopic Method)	0 mm to 1 mm	IS 6416	Permanent
393	Ferrous Metal	Grain Size	Qualitative :Magnification 100 X	ASTM E 112	Permanent
394	Ferrous Metal	Grain Size	Qualitative :Magnification 100 X	ISO 643	Permanent
395	Ferrous Metal	Grain Size	Qualitative :Magnification 100 X	IS 4748	Permanent
396	Ferrous Metal	Macro & Microscopic Examination	Qualitative :Magnification 7 X to 1000 X	IS 3600-9	Permanent
397	Ferrous Metal	Macro Etching Practice	Qualitative	ASTM E 340	Permanent
398	Ferrous Metal	Non Metallic Inclusion rating Test (Method A)	Qualitative	ASTM E 45	Permanent
399	Ferrous Metal	Non Metallic Inclusion rating Test (Method A)	Qualitative	IS 4163	Permanent
400	Ferrous Metal	Non Metallic Inclusion rating Test (Method A)	Qualitative	ISO 4976	Permanent
401	Stainless steel & Related alloys	Ferric chloride crevice Corrosion test (Method B)	Qualitative	ASTM G48	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
402	Stainless steel & Related alloys	Ferric chloride Pitting Corrosion Satisfactory test (Method A)	Qualitative	ASTM G48	Permanent
403	Stainless Steel & Related Alloys	Huey Test	Qualitative	ISO 3651-1	Permanent
404	Stainless steel & Related alloys	Monnypenny Staruss test	Qualitative	ISO 3651-2	Permanent
405	Aluminum and Magnesium Die Castings	Porosity Test	Qualitative	ASTM E 505	Permanent
406	Ferrous & Non Ferrous Material	Microstructure Analysis	Qualitative	ASM Handbook Vol.9	Permanent
407	Ferrous & Non Ferrous metals, weldments for procedure & performance qualification (plates & Pipes)	Macro & Microscopic Examination of weld	Qualitative	ISO 17639	Permanent
408	Metallic Material	Coating Thickness by Microscope	0 Micron to 1000 Micron	IS 3203	Permanent
409	Metallic materials	Determination of volume fraction of phases (Ferrite content)	Qualitative	ASTM E562	Permanent
410	Metals and Alloys	Microetching	Qualitative	ASTM E 407	Permanent
411	Aluminum Fusion	Macro Examination	Qualitative	ISO 15614 Part-2	Permanent



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Sr. No	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
412	Aluminum Fusion	Macro Examination	Qualitative	ISO 9606 Part-2	Permanent
413	Fusion-welded joints in steel, nickel, titanium and their alloys	Macro Examination (Concavity)	Qualitative	ISO 5817	Permanent
414	Fusion-welded joints in steel, nickel, titanium and their alloys	Macro Examination (Convexity)	Qualitative	ISO 5817	Permanent
415	Fusion-welded joints in steel, nickel, titanium and their alloys	Macro Examination (Leg length)	Qualitative	ISO 5817	Permanent
416	Fusion-welded joints in steel, nickel, titanium and their alloys	Macro Examination (Throat)	Qualitative	ISO 5817	Permanent
417	Fusion-welded joints in steel, nickel, titanium and their alloys	Macro Examination (Weld Penetration)	Qualitative	ISO 5817	Permanent
418	Metallic Material Fusion	Macro Examination	Qualitative	ISO 15614 Part-1	Permanent
419	Metallic Material Fusion	Macro Examination	Qualitative	ISO 9606 Part-1	Permanent
420	Weld Products	Macro Examination	Qualitative	AWS D1.1	Permanent
421	Weld Products	Macro Examination	Qualitative	AWS D1.6	Permanent
422	Weld Products	Macro Examination	Qualitative	ASME SECTION IX	Permanent



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