SCOPE OF ACCREDITATION

Laboratory Name : DELTA INSPECTION AND RESEARCH CENTRE, PLOT NO.108, SHANTHI NAGAR, PERUMBAKKAM, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- CORROSION TESTS	Inorganic & Organic coating (plated and painted) material	Salt Spray Test	ASTM B117
2	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Antimony	ASTM E1251
3	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Antimony	IS 11035
4	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Boron	ASTM E1251
5	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Boron	IS 11035
6	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Cadmium	ASTM E1251
7	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Cadmium	IS 11035
8	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Chromium	ASTM E1251
9	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Chromium	IS 11035
10	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Copper	ASTM E1251
11	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Copper	IS 11035
12	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Iron	ASTM E1251
13	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Iron	IS 11035
14	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Lead	ASTM E1251
15	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Lead	IS 11035
16	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Lithium	ASTM E1251
17	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Lithium	IS 11035
18	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Magnesium	ASTM E1251

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
19	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Magnesium	IS 11035
20	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Manganese	ASTM E1251
21	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Manganese	IS 11035
22	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Nickel	ASTM E1251
23	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Nickel	IS 11035
24	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Silicon	ASTM E1251
25	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Silicon	IS 11035
26	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Tin	ASTM E1251
27	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Tin	IS 11035
28	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Titanium	ASTM E1251
29	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Titanium	IS 11035
30	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Vanadium	ASTM E1251
31	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Vanadium	IS 11035:1984(RA)
32	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Zinc	ASTM E1251
33	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Zinc	IS 11035
34	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Chromium	ASTM E415
35	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Aluminium	ASTM E415
36	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Aluminium	IS 8811
37	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Carbon	ASTM E415

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
38	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Carbon	IS 8811 : 1998 (RA)
39	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Chromium	IS 8811
40	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Cobalt	ASTM E415
41	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Cobalt	IS 8811
42	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Copper	ASTM E415
43	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Copper	IS 8811
44	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Manganese	ASTM E415
45	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Manganese	IS 8811
46	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Molybdenum	ASTM E415
47	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Molybdenum	IS 8811
48	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Nickel	ASTM E415
49	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Nickel	IS 8811
50	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Nitrogen	ASTM E415
51	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Nitrogen	IS 8811
52	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Phosphorus	ASTM E415
53	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Phosphorus	IS 8811
54	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Silicon	ASTM E415
55	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Silicon	IS 8811
56	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Sulphur	ASTM E415

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
57	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Sulphur	IS 8811
58	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Tin	ASTM E415
59	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Tin	IS 8811
60	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Titanium	ASTM E415
61	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Titanium	IS 8811
62	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Tungsten	ASTM E415
63	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Tungsten	IS 8811
64	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Vanadium	ASTM E415
65	CHEMICAL- METALS & ALLOYS	Carbon and Alloy Steel	Vanadium	IS 8811
66	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Aluminium	EN 15079
67	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Antimony	EN 15079
68	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Iron	EN 15079
69	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Lead	EN 15079
70	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Manganese	EN 15079
71	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Nickel	EN 15079
72	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Phosphorus	EN 15079
73	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Silicon	EN 15079
74	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Tin	EN 15079
75	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Zinc	EN 15079

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
76	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Aluminium	ASTM E3047
77	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Aluminium	DIRC/VAL-Ni/5.4-01
78	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Boron	ASTM E3047
79	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Boron	DIRC/VAL-Ni/5.4-01
80	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Carbon	ASTM E 3047
81	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Carbon	DIRC/VAL-Ni/5.4-01
82	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Chromium	ASTM E3047
83	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Chromium	DIRC/VAL-Ni/5.4-01
84	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Cobalt	ASTM E3047
85	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Cobalt	DIRC/VAL-Ni/5.4-01
86	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Copper	ASTM E3047
87	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Copper	DIRC/VAL-Ni/5.4-01
88	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Iron	ASTM E3047
89	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Iron	DIRC/VAL-Ni/5.4-01
90	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Manganese	ASTM E3047
91	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Manganese	DIRC/VAL-Ni/5.4-01
92	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Molybdenum	ASTM E3047
93	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Molybdenum	DIRC/VAL-Ni/5.4-01
94	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Niobium	ASTM E3047

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
95	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Niobium	DIRC/VAL-Ni/5.4-01
96	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Nitrogen	ASTM E3047
97	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Nitrogen	DIRC/VAL-Ni/5.4-01
98	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Phosphorus	ASTM E3047
99	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Phosphorus	DIRC/VAL-Ni/5.4-01
100	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Silicon	ASTM E3047
101	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Silicon	DIRC/VAL-Ni/5.4-01
102	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Titanium	ASTM E3047
103	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Titanium	DIRC/VAL-Ni/5.4-01
104	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Tungsten	ASTM E3047
105	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Tungsten	DIRC/VAL-Ni/5.4-01
106	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Vanadium	ASTM E3047
107	CHEMICAL- METALS & ALLOYS	Nickel and Nickel Alloys	Vanadium	DIRC/VAL-Ni/5.4-01
108	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	ASTM E 1086
109	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	IS 9879
110	CHEMICAL- METALS & ALLOYS	Stainless Steel	Boron	ASTM E1086
111	CHEMICAL- METALS & ALLOYS	Stainless Steel	Boron	IS 9879
112	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
113	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
114	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
115	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
116	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	ASTM E1086
117	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	IS 9879
118	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086
119	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
120	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
121	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
122	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
123	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
124	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
125	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
126	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	IS 9879
127	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	ASTM E1086
128	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	IS 9879
129	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086
130	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879
131	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
132	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
133	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
134	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879
135	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	ASTM E1086
136	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	IS 9879
137	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tungsten	ASTM E1086
138	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tungsten	IS 9879
139	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	ASTM E1086
140	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	IS 9879
141	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloy	Aluminium	DIRC/VAL-Zn/5.4-01
142	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Cadmium	DIRC/VAL-Zn/5.4-01
143	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Copper	DIRC/VAL-Zn/5.4-01
144	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Inidium	DIRC/VAL-Zn/5.4-01
145	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Iron	DIRC/VAL-Zn/5.4-01
146	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Lead	DIRC/VAL-Zn/5.4-01
147	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Magnesium	DIRC/VAL-Zn/5.4-01
148	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Nickel	DIRC/VAL-Zn/5.4-01
149	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Tin	DIRC/VAL-Zn/5.4-01
150	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & non ferrous metals	Impact test- Charpy-U notch(0 to -100 deg C)	IS 1499

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous metals	Brinell Hardness Test (2.5 mm/ 187.5 kgf)	ASTM E10
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous metals	Brinell Hardness Test (2.5 mm/ 187.5 kgf)	IS 1500 (Part 1)
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous metals	Impact test- Charpy V- notch(0 to -100 deg C)	IS 1757 (Part 1)
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous metals	Impact test- Izod (0 to -100 deg C)	IS 1598
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	0.2 % Proof Stress	ASTM A370
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	0.2 % Proof Stress	ASTM E8/E8M
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	0.2 % Proof Stress	IS 1608(Part 1)
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	0.2 % Proof Stress	ISO 6892-1
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Bend Test	ASTM A370
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Bend Test	IS 1599
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Elongation	ASTM A370
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Elongation	ASTM E8/E8M
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Elongation	IS 1608(Part 1)
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Elongation	ISO 6892-1

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Micro Vickers Hardness (HV0.5)	ASTM E 384
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Micro Vickers Hardness (HV0.5)	ISO 6507-1
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Micro Vickers Hardness(HV0.5)	IS 1501 (Part 1)
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Reduction in Area	ASTM A370
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Reduction in Area	ASTM E8/E8M
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Reduction in Area	IS 1608(Part 1)
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Reduction in Area	ISO 6892-1
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Rockwell Hardness (HRC)	IS 1586 (Part 1)
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Rockwell Hardness (HRC)	ISO 6508-1
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Rockwell Hardness(HRC)	ASTM E18
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Tensile Strength	ASTM A370
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Tensile Strength	ASTM E8/E8M
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Tensile Strength	IS 1608(Part 1)
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Tensile Strength	ISO 6892-1

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Yield Strength	ASTM A370
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Yield Strength	ASTM E8/E8M
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Yield Strength	IS 1608(Part 1)
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Yield Strength	ISO 6892-1
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Micro Vickers Hardness (HV0.5)	IS 1501 (Part 1)
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Rockwell Hardness (HRB)	ASTM E18
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Rockwell Hardness (HRB)	ISO 6508-1
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Tensile Strength	ISO 6892-1
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials	0.2 % Proof Stress	ASTM E8/E8M
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials	0.2 % Proof Stress	IS 1608(Part 1)
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials	0.2 % proof Stress	ISO 6892-1
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials	Bend Test	IS 1599
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials	Elongation	ASTM E8/E8M
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials	Elongation	IS 1608(Part 1)

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193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials	Elongation	ISO 6892-1
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials	Micro Vickers Hardness (HV0.5)	ASTM E 384
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials	Micro Vickers Hardness (HV0.5)	ISO 6507-1
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials	Reduction in Area	ASTM E8/E8M
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials	Reduction in Area	IS 1608(Part 1)
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials	Rockwell Hardness (HRB)	IS 1586 (Part 1)
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials	Tensile Strength	ASTM E8/E8M
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials	Tensile Strength	IS 1608(Part 1)
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials(Aluminium Base Alloys and Magnesium Base Alloys)	0.2 % Proof Stress	ASTM B557
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials(Aluminium Base Alloys and Magnesium Base Alloys)	Tensile Strength	ASTM B557M
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials(Aluminium Base Alloys and Magnesium Base Alloys)	0.2 % proof Stress	ASTM B557M
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials(Aluminium Base Alloys and Magnesium Base Alloys)	Elongation	ASTM B557
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials(Aluminium Base Alloys and Magnesium Base Alloys)	Elongation	ASTM B557M
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials(Aluminium Base Alloys and Magnesium Base Alloys)	Reduction in Area	ASTM B557

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207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials(Aluminium Base Alloys and Magnesium Base Alloys)	Reduction in Arrea	ASTM B557M
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials(Aluminium Base Alloys and Magnesium Base Alloys)	Tensile Strength	ASTM B557
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars (Diameter 8 mm to 32 mm)	0.2 % Proof Stress / Yield Stress	IS 1608(Part 1)
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars (Diameter 8 mm to 32 mm)	Elongation	IS 1608(Part 1)
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars (Diameter 8 mm to 32 mm)	Re-bend Test	IS 1786
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars (Diameter 8 mm to 32 mm)	Tensile Strength	IS 1608(Part 1)
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bars (Diameter 8 mm to 32 mm)	weight / Meter	IS 1786
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes and Pipes (Ferrous)	Crushing Test	IS 3601
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes and Pipes (Ferrous)	Drift Expansion Test	IS 2335
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes and Pipes (Ferrous)	Crushing Test	ASTM A370
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes and Pipes (Ferrous)	Flattening Test	ASTM A370
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes and Pipes (Ferrous)	Flattening Test	ASTM A530/A530M
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes and Pipes (Ferrous)	Flattening Test	IS 2328
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes and Pipes (Ferrous)	Flattening Test	ISO 8492

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221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes and Pipes (Non-Ferrous)	Drift Expansion Test	IS 2335
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes and Pipes (Non-Ferrous)	Flattening Test	IS 2328
223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes and Pipes (Non-Ferrous)	Flattening Test	ISO 8492
224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Bend (Face Bend, Root Bend and Side Bend)	ASME (Section IX)
225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Fracture Test	ASME (Section IX)
226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material	Tensile Strength	ASME (Section IX)
227	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels (wrought and cast products)	IGC Practice B	ASTM A262
228	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels (wrought and cast steels)	IGC Practice A	ASTM A262
229	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels (wrought and cast steels)	IGC Practice C	ASTM A262
230	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels (wrought and cast steels)	IGC Practice E	ASTM A262
231	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels (wrought and cast steels)	IGC Practice F	ASTM A262
232	MECHANICAL-METALLOGRAPHY TEST	Case Hardened Steels and Nitrided Steel	Case Depth	IS 13691
233	MECHANICAL-METALLOGRAPHY TEST	Case Hardened Steels and Nitrided Steel	Case Depth	IS 6416:1988, RA
234	MECHANICAL-METALLOGRAPHY TEST	Case Hardened Steels and Nitrided Steel	Determination of thickness of surface hardened layer	ISO 18203
235	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/Ferritic Stainless Steel	Detection of detrimental Intermetallic phase : test method A	ASTM A923
236	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steel (wrought and cast products)	IGC Practice W	ASTM A763

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237	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steel (wrought and cast products)	IGC Practice X	ASTM A763
238	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steel (wrought and cast products)	IGC Practice Y	ASTM A763
239	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steel (wrought and cast products)	IGC Practice Z	ASTM A763
240	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Billets,Bloom,Hot Rolled Product,Forging,Sheets,Plates,Extrusion,Casting Machined and Ground Parts,Weldments	Macro Examination / Visual Examination	ASM Metals Hand Book (Vol. 9)
241	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Billets,Bloom,Hot Rolled Product,Forging,Sheets,Plates,Extrusion,Casting Machined and Ground Parts,Weldments	Macro Examination / Visual Examination	ASTM E 340
242	MECHANICAL-METALLOGRAPHY TEST	Ferrous, non ferrous and weld materials	Macro Examination / Visual Examination	ASME (Sec. IX)
243	MECHANICAL-METALLOGRAPHY TEST	Ferrous, non ferrous and weld materials	Macro Examination / Visual Examination	ASTM E381
244	MECHANICAL-METALLOGRAPHY TEST	Ferrous, non ferrous and weld materials	Macro Examination / Visual Examination	IS 11371
245	MECHANICAL-METALLOGRAPHY TEST	Ferrous, non ferrous and weld materials	Macro Examination / Visual Examination	IS 7307 (Part 1):1974, RA
246	MECHANICAL-METALLOGRAPHY TEST	Ferrous, non ferrous and weld materials	Macro Examination / Visual Examination	ISO 17639
247	MECHANICAL-METALLOGRAPHY TEST	Grey Cast Iron and S.G. Iron Products	Micro Examination Graphite Flakes/ Nodules type and size, distribution characteristics and matrix analysis	IS 7754:1975, RA
248	MECHANICAL-METALLOGRAPHY TEST	Grey Cast Iron and S.G. Iron Products	Micro Examination Graphite Flakes/ Nodules type and size, distribution characteristics and matrix analysis	ASTM A247
249	MECHANICAL-METALLOGRAPHY TEST	Grey Cast Iron and S.G. Iron Products	Micro Examination Graphite Flakes/ Nodules type and size, distribution characteristics and matrix analysis	ISO 945-1
250	MECHANICAL-METALLOGRAPHY TEST	Metal and Alloys	Decarburization Depth	IS 6396:2000,RA
251	MECHANICAL-METALLOGRAPHY TEST	Metal and Alloys	Grain Size by Comparison Method	EN ISO 643

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252	MECHANICAL-METALLOGRAPHY TEST	Metallic and Oxide Coating on Metals	Metal and Oxide Coating Thickness of Electroplated Coating	ASTM B487
253	MECHANICAL-METALLOGRAPHY TEST	Metallic and Oxide Coating on Metals	Metal and Oxide Coating Thickness of Electroplated Coating	IS 3203
254	MECHANICAL-METALLOGRAPHY TEST	Metallic and Oxide Coating on Metals	Metal and Oxide Coating Thickness of Electroplated Coating	ISO 1463
255	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	Decarburization Depth	ASTM E 1077
256	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	Grain Size by Comparison Method	ASTM E 112
257	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	Grain Size by Comparison Method	IS 4748
258	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	Inclusion Rating	ASTM E 45
259	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	Inclusion Rating	BS EN 10247
260	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	Inclusion Rating	IS 4163:2004,RA
261	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	Micro Structure Characterization	ASM Metal Hand Book (Vol. 9)
262	MECHANICAL-METALLOGRAPHY TEST	Metals and alloys	Micro structure characterization	IS 7739 (Part 3)