National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CHENNAI ANALYTICAL LABORATORIES, PLOT NO.17, V.S.S NAGAR, THIRUMIDIVAKKAM, CHENNAI, KANCHIPURAM, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 12/10/2022 to 05/04/2024 **Last Amended on** 23/05/2023

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	Coated Products / Panels / Raw Materials	Salt Spray test (Fog Type)	ASTM B117
2	CHEMICAL- CORROSION TESTS	metals and its alloys/ metallic coatings (anodic and cathodic)/ anodic oxide coatings, and organic coatings on metallic materials.	Neutral Salt Spray Test	ISO 9227
3	CHEMICAL- CORROSION TESTS	Painted Products / Panels / Raw Materials	Resistance to Neutral Salt Spray Test	IS 101 Part-6/Sec-1
4	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Ferrous and Non-Ferrous Materials and Products	Cadmium	BS EN 62321 Part 5
5	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Ferrous and Non-Ferrous Materials and Products	Hexavalent Chromium	IEC 62321 Part 7 & Part 1
6	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Ferrous and Non-Ferrous Materials and Products	Lead	BS EN 62321 Part 5
7	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Ferrous and Non-Ferrous Materials and Products	Mercury	BS EN 62321 Part 4
8	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Plastic & Polymeric products	Cadmium	BS EN 62321 Part 5
9	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Plastic & Polymeric Products	Lead	BS EN 62321 Part 5:
10	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Plastic & Polymeric products	Mercury	BS EN 62321 Part 4
11	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Plastics and Polymeric Products	Benzyl Butyl Phthalate	IEC 62321 Part 8
12	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Plastics and Polymeric Products	Di Iso-Butyl Phthalate	IEC 62321 Part 8
13	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Plastics and Polymeric Products	Di-(2-ethylhexyl) Phthalate	IEC 62321 Part 8
14	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Plastics and Polymeric Products	Dibutyl Phthalate	IEC 62321 Part 8
15	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	ASTM E1251
16	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E1251
17	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E1251
18	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E1251

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19	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E1251
20	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E1251
21	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E1251
22	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E1251
23	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E1251
24	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E1251
25	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E1251
26	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Aluminium	ASTM E415
27	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Aluminium	IS 8811
28	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Aluminium	JIS G- 1253
29	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Boron	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Boron	IS 8811
31	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Boron	JIS G-1253
32	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Carbon	ASTM E415
33	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Carbon	IS 8811
34	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Carbon	JIS G- 1253
35	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Chromium	ASTM E415
36	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Chromium	IS 8811
37	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Chromium	JIS G- 1253

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38	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Copper	ASTM E415
39	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Copper	IS 8811
40	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Copper	JIS G- 1253
41	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Manganese	ASTM E415
42	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Manganese	IS 8811
43	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Manganese	JIS G- 1253
44	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Molybdenum	ASTM E415
45	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Molybdenum	IS 8811
46	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Molybdenum	JIS G- 1253
47	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Nickel	ASTM E415
48	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Nickel	IS 8811
49	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Nickel	JIS G-1253
50	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Niobium	ASTM E415
51	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Niobium	IS 8811
52	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Niobium	JIS G- 1253
53	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Phosphorous	ASTM E415
54	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Phosphorous	IS 8811
55	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Phosphorous	JIS G- 1253
56	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Silicon	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 steel & Alloy steel	Silicon	IS 8811
58	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Silicon	JIS G- 1253
59	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Sulphur	ASTM E415
60	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Sulphur	IS 8811
61	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Sulphur	JIS G-1253
62	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Vanadium	ASTM E415
63	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Vanadium	IS 8811
64	CHEMICAL- METALS & ALLOYS	Carbon steel & Alloy steel	Vanadium	JIS G- 1253
65	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 15338
66	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	JIS G- 1253
67	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 15338
68	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	JIS G- 1253
69	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS 15338
70	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	JIS G- 1253
71	CHEMICAL- METALS & ALLOYS	Cast Iron	Magnesium	JIS G- 1253
72	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 15338
73	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	JIS G- 1253
74	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	IS 15338
75	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	JIS G- 1253

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76	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	JIS G- 1253
77	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 15338
78	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	JIS G- 1253
79	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	JIS G- 1253
80	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	IS 15338
81	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	JIS G- 1253
82	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	IS 15338
83	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	JIS G- 1253
84	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Carbon	IS 12308 Part 11
85	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Copper	ASTM E 351
86	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Manganese	IS 12308 Part 3
87	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Nickel	ASTM E 351
88	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Phosphorus	ASTM E351
89	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Silicon	IS 12308 Part 6
90	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Sulphur	IS 228 Part 9
91	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
92	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 228 Part 1
93	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
94	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	JIS G- 1253

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95	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
96	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 228 Part 6
97	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
98	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	JIS G-1253
99	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086
100	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E350
101	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
102	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	JIS G-1253
103	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
104	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 228 Part 12
105	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
106	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	JIS G- 1253
107	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
108	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 228 Part 10
109	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
110	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	JIS G-1253
111	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
112	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 228 Part 5
113	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	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	Nickel	JIS G-1253
115	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous	ASTM E1086
116	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous	IS 9879
117	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous	JIS G- 1253
118	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E350
119	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
120	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 228 Part 8
121	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
122	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	JIS G- 1253
123	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
124	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 228 Part 9
125	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	JIS G- 1253
126	CHEMICAL- METALS & ALLOYS	Stainless Steel	Suphur	IS 9879
127	CHEMICAL- METALS & ALLOYS	Steel (Carbon & Alloy Steel)	Carbon	IS 228 Part 1
128	CHEMICAL- METALS & ALLOYS	Steel (Carbon & Alloy Steel)	Chromium	IS 228 Part 6
129	CHEMICAL- METALS & ALLOYS	Steel (Carbon & Alloy Steel)	Copper	ASTM E350
130	CHEMICAL- METALS & ALLOYS	Steel (Carbon & Alloy Steel)	Lead	ASTM E350
131	CHEMICAL- METALS & ALLOYS	Steel (Carbon & Alloy Steel)	Manganese	IS 228 Part 12
132	CHEMICAL- METALS & ALLOYS	Steel (Carbon & Alloy Steel)	Molybdenum	IS 228 Part 10

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133	CHEMICAL- METALS & ALLOYS	Steel (Carbon & Alloy Steel)	Nickel	IS 228 Part 5
134	CHEMICAL- METALS & ALLOYS	Steel (Carbon & Alloy Steel)	Phosphorus	ASTM E350
135	CHEMICAL- METALS & ALLOYS	Steel (Carbon & Alloy Steel)	Silicon	IS 228 Part 8
136	CHEMICAL- METALS & ALLOYS	Steel (Carbon & Alloy Steel)	Sulphur	IS 228 Part 9
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Case Hardened Steels	Effective Case Depth by Hardness Traverse Method	IS 6416
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Pipes & Tubes (Including Welded pipes)	Flattening Test	IS 2328
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Pipes & Tubes (Including Welded pipes)	Drift Expanding Test	IS 2335
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous &Non Ferrous Materials	Bend Test	ASTM E290
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Material (Externally and Internally Threaded Fasteners)	Proof Load	ASTM F606/F606M
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimen	Vickers Hardness Test – HV5	ASTM E92
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Brinell Hardness test-HBW(10/3000)	ASTM E10
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Brinell Hardness test-HBW(10/3000)	IS 1500 Part-1
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Brinell Hardness test-HBW(10/3000)	ISO 6506 Part-1
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Brinell Hardness test-HBW(5/750)	ASTM E10
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Brinell Hardness test-HBW(5/750)	ISO 1500 Part-1

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148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Brinell Hardness test-HBW(5/750)	ISO 6506 Part-1
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Micro Vickers Hardness Test – HV0.2	ASTM E384
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Micro Vickers Hardness Test – HV0.2	IS 1501 Part-1
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Micro Vickers Hardness Test – HV0.2	ISO 6507 Part-1
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Micro Vickers Hardness Test – HV0.5	ASTM E384
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Micro Vickers Hardness Test – HV0.5	IS 1501 Part-1
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Micro Vickers Hardness Test – HV0.5	ISO 6507 Part-1
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Micro Vickers Hardness Test – HV1.0	ASTM E384
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Micro Vickers Hardness Test – HV1.0	IS 1501 Part-1
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Micro Vickers Hardness Test – HV1.0	ISO 6507 Part-1
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Vickers Hardness Test – HV10	ASTM E92
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Vickers Hardness Test – HV10	IS 1501 Part 1
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Vickers Hardness Test – HV10	ISO 6507 Part-1
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Vickers Hardness Test – HV30	ASTM E92

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162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Vickers Hardness Test – HV30	IS 1501 Part 1
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Vickers Hardness Test – HV30	ISO 6507 Part-1
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Vickers Hardness Test – HV5	IS 1501 Part 1
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials, alloys & Products including welded Test Specimens	Vickers Hardness Test – HV5	ISO 6507 Part-1
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIAL, ALLOYS & PRODUCTS	Mass per Metre	IS 1786
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS ,ALLOYS & PRODUCTS	BEND TEST	IS 1786
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS, ALLOYS & PRODUCTS	%REDUCTION AREA	BS EN 10164
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & Products	0.2% Proof strength	ASTM A370
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, Alloys & Products	0.2% Proof Strength	IS 1786
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Bend Test	ASTM A370
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & Products	Elongation	ASTM A370
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	IS 1786
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & Products	Rebend Test	IS 1786
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & Products	Reduction of area	ASTM A370

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176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & Products	Tensile Strength	ASTM A370
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Tensile Strength	IS 1786
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & Products	Yield Strength	ASTM A370
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fillet Welds & Welded test Specimens	Fracture Test	ISO 9017
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fillet Welds & Welded test Specimens	Fracture Test	ASME Sec IX
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fillet Welds & Welded test Specimens	Fracture Test	ASME Sec-II Part C
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fillet Welds & Welded test Specimens	Fracture Test	AWS D1.1
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fillet Welds & Welded test Specimens	Fracture Test	AWS D1.6
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fillet Welds & Welded test Specimens	Fracture Test	ISO 15614 Part-1
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	0.2% Proof strength	ASTM E8/E8M
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	0.2% proof Strength	IS 1608-Part 1
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	0.2% Proof Strength	ISO 6892 Part 1
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Bend Test	ISO 7438
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elongation	ASTM E8/E8M

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190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elongation	IS 1608-Part1
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elongation	ISO 6892 Part 1
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Reduction of area	ASTM E8/E8M
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Reduction of area	IS 1608 Part-1
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Reduction of area	ISO 6892 Part-1
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness (HRBW)	ASTM E18
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness (HRBW)	IS 1586 part-1
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness (HRBW)	ISO 6508 (Part 1)
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness (HRC)	ASTM E18
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness (HRC)	IS 1586 Part-1
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness (HRC)	ISO 6508 (Part 1)
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Strength	ASTM E8/E8M
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile strength	IS 1608 Part-1
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Strength	ISO 6892 Part 1

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204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength	ASTM E8/E8M
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength	IS 1608-Part1
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength	ISO 6892 Part 1
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials including Weld Metals	Impact Test Charpy "U" Notch (RoomTemperature to -50°C)	IS 1757 Part-1
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials including Weld Metals	Impact Test Charpy "U" Notch (RoomTemperature to -50°C)	ISO 148 Part-1
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials including Weld Metals	Impact Test Charpy "V" Notch (Room Temperature to -50°C)	IS 1757 Part 1
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials including weld metals	Impact Test Charpy "V" Notch (Room Temperature to -50°C)	ISO 148 Part-1
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials including Weld Metals	Izod Impact Test	IS 1598
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals, Alloys & Products	Bend Test	IS 1599
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials, alloys & Products	Brinell Hardness test-HBW(10/1000)	ASTM E10
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials, alloys & Products	Brinell Hardness test-HBW(10/1000)	IS 1500 Part-1
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials, alloys & Products	Brinell Hardness test-HBW(10/1000)	ISO 6506 Part-1
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials, alloys & Products	Brinell Hardness test-HBW(10/500)	ASTM E10
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials, alloys & Products	Brinell Hardness test-HBW(10/500)	IS 1500 Part-1

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218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Materials, alloys & Products	Brinell Hardness test-HBW(10/500)	ISO 6506 Part-1
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL FASTENERS (Bolts, Studs & Screws)	PROOF LOAD TEST	IS 1367 Part-3
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL FASTENERS (Bolts, Studs & Screws)	PROOF LOAD TEST	ISO 898 Part-1
221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL FASTENERS (Nuts)	PROOF LOAD TEST	IS 1367 Part-6
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL FASTENERS (Nuts)	PROOF LOAD TEST	ISO 898 Part-2
223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Pipe & Tubes (Including Welded pipes)	Crush Test	ASTM A370
224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Pipes & Tubes (Including Welded pipes)	Flaring Test	ASTM A370
225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Pipes & Tubes (Including Welded pipes)	Flattening Test	ASTM A370
226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels, Alloys & Stainless Steel Fastners	PROOF LOAD TEST	ASTM A193/193M
227	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels, Alloys & Stainless Steel Fastners	PROOF LOAD TEST	ASTM A194/194M
228	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Bars, Plates, Pipes	Tensile Strength	BS EN ISO 15614 Part 1
229	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Joints and Weld Metal in Steel	Fillet Weld Fracture Test	IS 3600 Part-8
230	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Joints and Weld Metal in Steel	Nick Break Test	IS 3600 Part-8
231	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Elongation	ASME SEC II Part-C

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232	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Elongation	AWS D1.1/D1.1M
233	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Elongation	IS 3600 Part 4
234	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Face Bend/ Root Bend/ Side bend	ASME SEC IX
235	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Face Bend/ Root Bend/ Side bend	AWS D1.1/D1.1M
236	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Face Bend/ Root Bend/ Side bend	AWS D1.6/D1.6M
237	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Face Bend/ Root Bend/ Side bend	IS 3600 Part-5
238	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Face Bend/ Root Bend/ Side bend	IS 7307 Part-1
239	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Face Bend/ Root Bend/ Side bend	IS 7310 Part-1
240	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Face Bend/ Root Bend/ Side bend	ISO 15614 Part-1
241	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Face Bend/ Root Bend/ Side bend	ISO 5173
242	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TEST SPECIMENS	FRACTURE TEST	IS 7307 PART- 1
243	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TEST SPECIMENS	Fracture Test	IS 7310 PART-1
244	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Longitudinal Root/Face Bend	IS 3600 Part-7
245	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Reduction of area	ASME SEC II Part-C

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246	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Reduction of area	AWS D1.1/D1.1M
247	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Reduction of area	IS 3600 Part 4
248	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Tensile Strength	ASME SEC II Part-C
249	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test Specimens	Tensile Strength	ASME Section IX
250	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Tensile Strength	AWS D1.1/D1.1M
251	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Tensile Strength	AWS D1.6/D1.6M
252	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Tensile Strength	IS 3600 Part 3
253	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Tensile Strength	IS 3600 Part 4
254	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Tensile Strength	IS 7307 Part 1
255	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Tensile Strength	IS 7310-1
256	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Tensile Strength	ISO 4136
257	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Yield Strength (0.2% Offset method)	ASME SEC II Part-C
258	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Yield Strength (0.2% Offset method)	AWS D1.1/D1.1M
259	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Yield Strength (0.2% Offset method)	IS 3600 Part 4

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260	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded test Specimens	Yield Strength (0.2% Offset method)	IS 7307 Part 1
261	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Inter Granular Corrosion Practice A	ASTM A262
262	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Inter Granular Corrosion Practice C Test	ASTM A262
263	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Inter Granular Corrosion Practice E Test	ASTM A262
264	MECHANICAL-METALLOGRAPHY TEST	Case Hardened Steels & Nitrided Steel	Case Depth Measurement (Microscopic Method)	IS 6416
265	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/Ferritic Stainless Steels	Sodium Hydroxide Etch Test Method-A for Classification of Etch Structures of Duplex Stainless Steels	ASTM A923
266	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	Volume fraction of Phase	ASTM E562
267	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Materials	Macro Examination	ASME SEC- IX
268	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Materials	Macro Examination	ASME SEC-II PART-C
269	MECHANICAL-METALLOGRAPHY TEST	FERROUS AND NON FERROUS MATERIALS, ALLOYS& PRODUCTS	Average Grain Size Measurement (Comparison Method)	ASTM E112
270	MECHANICAL-METALLOGRAPHY TEST	Ferrous And Non- Ferrous Alloys & Products	Coating Thickness of Metal and Oxide coating by Microscopic Method	ASTM B487
271	MECHANICAL-METALLOGRAPHY TEST	Grey Cast Iron and SG Iron	Micro Examination of Cast Irons	ASTM A247
272	MECHANICAL-METALLOGRAPHY TEST	Grey Cast Iron and SG Iron	Micro Examination of Cast Irons	IS 7754
273	MECHANICAL-METALLOGRAPHY TEST	Metal and Alloys	Macro Examination	ASTM E340
274	MECHANICAL-METALLOGRAPHY TEST	Metals, Alloys & Welds	Macro Examination	ASM HAND BOOK VOL-09
275	MECHANICAL-METALLOGRAPHY TEST	Metals, Alloys & Welds	Microstructure	ASTM E3
276	MECHANICAL-METALLOGRAPHY TEST	Metals, Alloys & Welds	Microstructure	ASTM E407

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277	MECHANICAL-METALLOGRAPHY TEST	Metals,Alloys & Welds	Micro Examination	ASM Handbook Volume 9
278	MECHANICAL-METALLOGRAPHY TEST	Steel & its alloys	Macro Etch Test	IS 13015
279	MECHANICAL-METALLOGRAPHY TEST	Steel & its alloys	Macro Examination	ASTM E381
280	MECHANICAL-METALLOGRAPHY TEST	Steel and its Alloys	Average Grain Size By Comparison Method	IS 4748
281	MECHANICAL-METALLOGRAPHY TEST	Steel and its alloys	Decarburized depth of steel by Microscopic method	IS 6396
282	MECHANICAL-METALLOGRAPHY TEST	Steel and its alloys	Depth Of Decarburization By Microscopic Method	ASTM E1077
283	MECHANICAL-METALLOGRAPHY TEST	Steel and its alloys	Macro Examination	IS 11371
284	MECHANICAL-METALLOGRAPHY TEST	Steels and its alloy	Inclusion Content of steel	ASTM E45
285	MECHANICAL-METALLOGRAPHY TEST	Steels and its alloy	Non Metallic Inclusions	IS4163
286	MECHANICAL-METALLOGRAPHY TEST	Welded Joints and Weld Metal in Steel	Macro Examination	IS 7310 Part 1
287	MECHANICAL-METALLOGRAPHY TEST	Welded Joints and Weld Metal in Steel	Macro examination and Micro examination	IS 3600 Part-9
288	MECHANICAL-METALLOGRAPHY TEST	Welded Joints and Weld Metals in steel	Macro Examination	IS 7307 Part-1
289	MECHANICAL-METALLOGRAPHY TEST	Welded Joints and Weld Metals of Ferrous & Non-Ferrous Material	Macro Examination and Micro examination	ISO 17639
290	MECHANICAL-METALLOGRAPHY TEST	Wrought, Cast, Welded Nickel Rich Chromium Bearing Alloys	IGC Method-A Ferric Sulphate - Sulphuric Acid Test	ASTM G28