



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : AGROMET LAB, 46A, SANGANOUR ROAD, COIMBATORE, TAMIL NADU, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-8257
Validity 10/12/2024 to 09/12/2028

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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 Testing				
1	CHEMICAL- CORROSION TESTS	ELECTROPLATED AND ANODIZED ALUMINIUM COATINGS	Neutral salt spray test	IS 9844
2	CHEMICAL- CORROSION TESTS	Inorganic & Organic Coating (Plated & Painted) Materials	Salt spray (fog) test	ASTM B117
3	CHEMICAL- CORROSION TESTS	Iron and Steel Articles with Zinc or Zinc-Alloy Coatings	weight [mass] of coating	ASTM A90/A90M
4	CHEMICAL- CORROSION TESTS	Mettalic products and Raw Materials	Neutral salt spray (NSS) test	ISO 9227
5	CHEMICAL- CORROSION TESTS	zinc coated iron and steel articles	Mass of zinc coating	IS 6745
6	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Aluminium	AML/VAL/ALUMINIUM (05/06/2024)
7	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Beryllium	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Bismuth	ASTM E1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	ASTM E1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	IS 11035
11	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	IS 504 (Part 8)
12	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E1251
13	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	IS 11035
14	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Gallium	ASTM E1251
15	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E1251
16	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	IS 11035
17	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	iron	IS 504 (Part 2)
18	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E1251
19	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E1251



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20	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	IS 11035
21	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	magnesium	IS 504 (Part 6)
22	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E1251
23	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	IS 11035
24	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	IS 504 (Part 5)
25	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E1251
26	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	IS 504 (Part 7)
27	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Phosphorus	ASTM E1251
28	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E1251
29	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	IS 11035
30	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	IS 504 (Part 1)
31	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Strontium	ASTM E1251
32	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E1251
33	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E1251
34	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	IS 11035
35	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Vanadium	ASTM E1251
36	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E1251
37	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	IS 11035
38	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zirconium	ASTM E1251
39	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Aluminium	ASTM E415



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40	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Aluminium	IS 8811
41	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Aluminium	JIS G 1253
42	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Arsenic	ASTM E415
43	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Arsenic	IS 8811
44	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Arsenic	JIS G 1253
45	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Boron	ASTM E415
46	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Boron	IS 8811
47	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Boron	JIS G 1253
48	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Carbon	ASTM E415
49	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Carbon	CR 10320
50	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Carbon	IS 8811
51	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Carbon	JIS G 1253
52	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Chromium	ASTM E415
53	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Chromium	CR 10320
54	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Chromium	IS 8811
55	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Chromium	JIS G 1253
56	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Cobalt	ASTM E415
57	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Cobalt	IS 8811
58	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Cobalt	JIS G 1253
59	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Copper	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
60	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Copper	CR 10320
61	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Copper	IS 8811
62	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Copper	JIS G 1253
63	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Lead	ASTM E415
64	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Lead	IS 8811
65	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Lead	JIS G 1253
66	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Manganese	ASTM E415
67	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Manganese	CR 10320
68	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Manganese	IS 8811
69	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Manganese	JIS G 1253
70	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Molybdenum	ASTM E415
71	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Molybdenum	IS 8811
72	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Molybdenum	JIS G 1253
73	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Nickel	ASTM E415
74	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Nickel	CR 10320
75	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Nickel	IS 8811
76	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Nickel	JIS G 1253
77	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Niobium	IS 8811
78	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Niobium	JIS G 1253
79	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Niobium/Columbium	ASTM E415



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80	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Nitrogen	ASTM E415
81	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Nitrogen	IS 228 (Part 23)
82	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Nitrogen	JIS G 1253
83	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Phosphorus	ASTM E415
84	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Phosphorus	CR 10320
85	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Phosphorus	IS 8811
86	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Phosphorus	JIS G 1253
87	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Silicon	ASTM E415
88	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Silicon	CR 10320
89	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Silicon	IS 8811
90	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Silicon	JIS G 1253
91	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Sulphur	ASTM E415
92	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Sulphur	CR 10320
93	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Sulphur	IS 8811
94	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Sulphur	JIS G 1253
95	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Tin	JIS G 1253
96	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Titanium	ASTM E415
97	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Titanium	IS 8811
98	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Titanium	JIS G 1253
99	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Vanadium	ASTM E415



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100	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Vanadium	IS 8811
101	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Vanadium	JIS G 1253
102	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Chromium	ASTM E350
103	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Manganese	ASTM E350
104	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Nickel	ASTM E350
105	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Phosphorus	ASTM E350
106	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Silicon	ASTM E350
107	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Sulphur	ASTM E350
108	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium	IS 15338
109	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium	JIS G1253
110	CHEMICAL- METALS & ALLOYS	Cast Iron	Antimony	JIS G1253
111	CHEMICAL- METALS & ALLOYS	Cast Iron	Arsenic	JIS G1253
112	CHEMICAL- METALS & ALLOYS	Cast Iron	Boron	JIS G1253
113	CHEMICAL- METALS & ALLOYS	Cast Iron	Calcium	JIS G1253
114	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E1999
115	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 15338
116	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	JIS G1253
117	CHEMICAL- METALS & ALLOYS	Cast Iron	Cerium	JIS G1253
118	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E1999
119	CHEMICAL- METALS & ALLOYS	cast iron	Chromium	ASTM E351



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120	CHEMICAL- METALS & ALLOYS	cast iron	Chromium	IS 12308 (Part 8)
121	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 15338
122	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	JIS G1253
123	CHEMICAL- METALS & ALLOYS	Cast Iron	Cobalt	JIS G1253
124	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E1999
125	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS 15338
126	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	JIS G1253
127	CHEMICAL- METALS & ALLOYS	Cast Iron	Lanthanum	JIS G1253
128	CHEMICAL- METALS & ALLOYS	Cast Iron	Lead	JIS G1253
129	CHEMICAL- METALS & ALLOYS	Cast Iron	Magnesium	IS 15338
130	CHEMICAL- METALS & ALLOYS	Cast Iron	Magnesium	JIS G1253
131	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E1999
132	CHEMICAL- METALS & ALLOYS	cast iron	Manganese	ASTM E351
133	CHEMICAL- METALS & ALLOYS	cast iron	Manganese	IS 12308 (Part 10)
134	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 15338
135	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	JIS G1253
136	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E1999
137	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	IS 15338
138	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	JIS G1253
139	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E1999



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140	CHEMICAL- METALS & ALLOYS	cast iron	Nickel	ASTM E351
141	CHEMICAL- METALS & ALLOYS	cast iron	Nickel	IS 12308 (Part 7)
142	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS 15338
143	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	JIS G1253
144	CHEMICAL- METALS & ALLOYS	Cast Iron	Niobium	JIS G1253
145	CHEMICAL- METALS & ALLOYS	Cast Iron	Nitrogen	JIS G1253
146	CHEMICAL- METALS & ALLOYS	cast iron	Phosphorus	ASTM E351
147	CHEMICAL- METALS & ALLOYS	cast iron	Phosphorus	IS 12308 (Part 5)
148	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 15338
149	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	JIS G1253
150	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999
151	CHEMICAL- METALS & ALLOYS	cast iron	Silicon	ASTM E351
152	CHEMICAL- METALS & ALLOYS	cast iron	Silicon	IS 12308 (Part 6)
153	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 15338
154	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	JIS G1253
155	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1999
156	CHEMICAL- METALS & ALLOYS	cast iron	Sulphur	IS 12308 (Part 2)
157	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	IS 15338
158	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	JIS G1253
159	CHEMICAL- METALS & ALLOYS	Cast Iron	Tellurium	JIS G1253



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160	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	ASTM E1999
161	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	JIS G1253
162	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	ASTM E1999
163	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	IS 15338
164	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	JIS G1253
165	CHEMICAL- METALS & ALLOYS	cast iron	Total carbon	IS 12308 (Part 11)
166	CHEMICAL- METALS & ALLOYS	Cast Iron	Tungsten	JIS G1253
167	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	ASTM E1999
168	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	IS 15338
169	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	JIS G1253
170	CHEMICAL- METALS & ALLOYS	Cast Iron	Zirconium	JIS G1253
171	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	BS EN 15079
172	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	BS EN 15079
173	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Arsenic	BS EN 15079
174	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Bismuth	BS EN 15079
175	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cadmium	BS EN 15079
176	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Chromium	BS EN 15079
177	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cobalt	BS EN 15079
178	CHEMICAL- METALS & ALLOYS	Copper & its alloys	copper	IS 3685 (Clause 5)
179	CHEMICAL- METALS & ALLOYS	Copper & its alloys	copper	IS 4027 (Part 1)



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180	CHEMICAL- METALS & ALLOYS	Copper & its alloys	copper	IS 440 (Clause 4)
181	CHEMICAL- METALS & ALLOYS	Copper & its alloys	copper	IS 7212 (Clause 4)
182	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	BS EN 15079
183	CHEMICAL- METALS & ALLOYS	Copper & its alloys	iron	IS 3685 (Clause 10)
184	CHEMICAL- METALS & ALLOYS	Copper & its alloys	iron	IS 4027 (Part 8)
185	CHEMICAL- METALS & ALLOYS	Copper & its alloys	iron	IS 440 (Clause 8.3)
186	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	BS EN 15079
187	CHEMICAL- METALS & ALLOYS	Copper & its alloys	lead	IS 3685 (Clause 5)
188	CHEMICAL- METALS & ALLOYS	Copper & its alloys	lead	IS 4027 (Part 1)
189	CHEMICAL- METALS & ALLOYS	Copper & its alloys	lead	IS 440 (Clause 4)
190	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Magnesium	BS EN 15079
191	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	BS EN 15079
192	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	BS EN 15079
193	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	IS 3685 (Clause 9)
194	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	IS 440 (Clause 10)
195	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	BS EN 15079
196	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	IS 3685 (Clause 8)
197	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	IS 4027 (Part 3)
198	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	IS 440 (Clause 15)
199	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Selenium	BS EN 15079



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200	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	BS EN 15079
201	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	IS 3685 (Clause 11)
202	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	IS 4027 (Part 10)
203	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silver	BS EN 15079
204	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Sulphur	BS EN 15079
205	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tellurium	BS EN 15079
206	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	BS EN 15079
207	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	BS EN 15079
208	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zirconium	BS EN 15079
209	CHEMICAL- METALS & ALLOYS	ferro silicon	aluminium	IS 1559 (Part 5)
210	CHEMICAL- METALS & ALLOYS	ferro silicon	manganese	IS 1559 (Part 7)
211	CHEMICAL- METALS & ALLOYS	ferro silicon	phosphorus	IS 1559 (Part 4)
212	CHEMICAL- METALS & ALLOYS	ferro silicon	Silicon	IS 1559 (Part 1)
213	CHEMICAL- METALS & ALLOYS	ferro silicon	sulphur	IS 1559 (Part 3)
214	CHEMICAL- METALS & ALLOYS	Ferrochromium	chromium	IS 13452
215	CHEMICAL- METALS & ALLOYS	Ferrochromium	Silicon	IS 13452
216	CHEMICAL- METALS & ALLOYS	Ferromanganese	phosphorus	IS 13938 (Part 3)
217	CHEMICAL- METALS & ALLOYS	Ferromanganese	Silicon	IS 13938 (Part 1)
218	CHEMICAL- METALS & ALLOYS	Ferromanganese	Total Sulphur	IS 13938 (Part 4)
219	CHEMICAL- METALS & ALLOYS	Iron, Nickel, and Cobalt Alloys	Nickel	ASTM E354



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220	CHEMICAL- METALS & ALLOYS	Iron, Nickel, and Cobalt Alloys	Silicon	ASTM E354
221	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminium	AML/VAL/Ni (14/09/2020)
222	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminium	ASTM E3047
223	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Boron	AML/VAL/Ni (14/09/2020)
224	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Boron	ASTM E3047
225	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Carbon	AML/VAL/Ni (14/09/2020)
226	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Carbon	ASTM E3047
227	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	AML/VAL/Ni (14/09/2020)
228	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	ASTM E3047
229	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt	AML/VAL/Ni (14/09/2020)
230	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt	ASTM E3047
231	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper	AML/VAL/Ni (14/09/2020)
232	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper	ASTM E3047
233	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron	AML/VAL/Ni (14/09/2020)
234	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron	ASTM E3047
235	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Lead	AML/VAL/Ni (14/09/2020)
236	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Magnesium	AML/VAL/Ni (14/09/2020)
237	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Magnesium	ASTM E3047
238	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	AML/VAL/Ni (14/09/2020)
239	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	ASTM E3047



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240	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	AML/VAL/Ni (14/09/2020)
241	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	ASTM E3047
242	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Niobium/Columbium	AML/VAL/Ni (14/09/2020)
243	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Niobium/Columbium	ASTM E3047
244	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Nitrogen	AML/VAL/Ni (14/09/2020)
245	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Phosphorus	AML/VAL/Ni (14/09/2020)
246	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Phosphorus	ASTM E3047
247	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon	AML/VAL/Ni (14/09/2020)
248	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon	ASTM E3047
249	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Sulphur	AML/VAL/Ni (14/09/2020)
250	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Sulphur	ASTM E3047
251	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tantalum	AML/VAL/Ni (14/09/2020)
252	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tantalum	ASTM E3047
253	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tin	AML/VAL/Ni (14/09/2020)
254	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tin	ASTM E3047
255	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	AML/VAL/Ni (14/09/2020)
256	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	ASTM E3047
257	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tungsten	AML/VAL/Ni (14/09/2020)
258	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tungsten	ASTM E3047
259	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Vanadium	AML/VAL/Ni (14/09/2020)



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260	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Vanadium	ASTM E3047
261	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	JIS G 1253
262	CHEMICAL- METALS & ALLOYS	Stainless Steel	Boron	JIS G 1253
263	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
264	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
265	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	JIS G 1253
266	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
267	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
268	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	JIS G 1253
269	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	JIS G 1253
270	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086
271	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
272	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	JIS G 1253
273	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
274	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
275	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	JIS G 1253
276	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
277	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
278	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	JIS G 1253
279	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086



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280	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
281	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	JIS G 1253
282	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	JIS G 1253
283	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	IS 228 (Part 23)
284	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	JIS G 1253
285	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086
286	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879
287	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	JIS G 1253
288	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
289	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
290	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	JIS G 1253
291	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
292	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879
293	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	JIS G 1253
294	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tantalum	JIS G 1253
295	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tin	JIS G 1253
296	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	JIS G 1253
297	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tungsten	JIS G 1253
298	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	JIS G 1253
299	CHEMICAL- METALS & ALLOYS	Stainless, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel-Iron Alloys	Chromium	ASTM E353



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300	CHEMICAL- METALS & ALLOYS	Stainless, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel-Iron Alloys	Nickel	ASTM E353
301	CHEMICAL- METALS & ALLOYS	Stainless, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel-Iron Alloys	Phosphorus	ASTM E353
302	CHEMICAL- METALS & ALLOYS	Stainless, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel-Iron Alloys	Silicon	ASTM E353
303	CHEMICAL- METALS & ALLOYS	Steels	carbon	IS 228 (Part 1)
304	CHEMICAL- METALS & ALLOYS	Steels	Chromium	IS 228 (Part 6)
305	CHEMICAL- METALS & ALLOYS	Steels	Manganese	IS 228 (Part 2)
306	CHEMICAL- METALS & ALLOYS	Steels	Molybdenum	IS 228 (Part 7)
307	CHEMICAL- METALS & ALLOYS	Steels	Nickel	IS 228 (Part 5)
308	CHEMICAL- METALS & ALLOYS	Steels	Phosphorus	IS 228 (Part 3)
309	CHEMICAL- METALS & ALLOYS	Steels	Silicon	IS 228 (Part 8)
310	CHEMICAL- METALS & ALLOYS	Steels	Sulphur	IS 228 (Part 9)
311	CHEMICAL- METALS & ALLOYS	Tool Steel	Boron	JIS G 1253
312	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	JIS G 1253
313	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	JIS G 1253
314	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	JIS G 1253
315	CHEMICAL- METALS & ALLOYS	Tool Steel	Copper	JIS G 1253
316	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	JIS G 1253
317	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	JIS G 1253
318	CHEMICAL- METALS & ALLOYS	Tool Steel	Nickel	JIS G 1253
319	CHEMICAL- METALS & ALLOYS	Tool Steel	Niobium	JIS G 1253



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320	CHEMICAL- METALS & ALLOYS	Tool Steel	Nitrogen	JIS G 1253
321	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	JIS G 1253
322	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	JIS G 1253
323	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	JIS G 1253
324	CHEMICAL- METALS & ALLOYS	Tool Steel	Tin	JIS G 1253
325	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	JIS G 1253
326	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	JIS G 1253
327	CHEMICAL- METALS & ALLOYS	Tool Steels and Other Similar Medium- and High-Alloy Steels	Chromium	ASTM E352
328	CHEMICAL- METALS & ALLOYS	Tool Steels and Other Similar Medium- and High-Alloy Steels	Nickel	ASTM E352
329	CHEMICAL- METALS & ALLOYS	Tool Steels and Other Similar Medium- and High-Alloy Steels	Phosphorus	ASTM E352
330	CHEMICAL- METALS & ALLOYS	Tool Steels and Other Similar Medium- and High-Alloy Steels	Silicon	ASTM E352
331	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Aluminium	IS 2599
332	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Aluminium	ISO 3815-1
333	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Cadmium	IS 2599
334	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Cadmium	ISO 3815-1
335	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Copper	IS 2599
336	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Copper	ISO 3815-1
337	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Iron	IS 2599
338	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Iron	ISO 3815-1
339	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Lead	IS 2599



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340	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Lead	ISO 3815-1
341	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Magnesium	IS 2599
342	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Magnesium	ISO 3815-1
343	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Nickel	IS 2599
344	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Tin	IS 2599
345	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Tin	ISO 3815-1
346	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Alloy and Stainless Steel Pipe	Flattening Test	ASTM A999/A999M
347	MECHANICAL- MECHANICAL PROPERTIES OF METALS	brazing in metallic materials	Guided Bend test (Mandrel Diameters 6 mm, 8 mm, 10 mm, 12 mm, 16 mm, 20 mm, 24 mm, 30 mm, 32 mm, 36 mm, 40 mm, 48 mm, 60 mm, 64 mm, 72 mm, 80 mm, 100 mm, 120 mm, 140 mm, 160 mm)	ASME Sec IX (QB-162)
348	MECHANICAL- MECHANICAL PROPERTIES OF METALS	brazing in metallic materials	Peel Test	ASME SEC IX (QB-170)
349	MECHANICAL- MECHANICAL PROPERTIES OF METALS	brazing in metallic materials	TENSION TEST	ASME SEC IX (QB-152)
350	MECHANICAL- MECHANICAL PROPERTIES OF METALS	carbon and low alloy steel tubes	Flaring Test	ASTM A450/A450M
351	MECHANICAL- MECHANICAL PROPERTIES OF METALS	carbon and low alloy steel tubes	Flattening Test	ASTM A450/A450M
352	MECHANICAL- MECHANICAL PROPERTIES OF METALS	cylindrical metallic products	Shear Strength	IS 5242
353	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Duplex Austenitic/ Ferritic Stainless Steels	TEST METHOD B—CHARPY IMPACT TEST FOR CLASSIFICATION OF STRUCTURES OF DUPLEX STAINLESS STEELS	ASTM A923



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354	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferritic/austenitic (duplex) stainless steels	Charpy V-notch impact toughness test	ISO 17781 (Section 5.4)
355	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous alloys & products	Micro Vickers Hardness (HV0.3)	ASTM E384
356	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous alloys & products	Micro Vickers Hardness (HV0.5)	ASTM E384
357	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous alloys & products	Micro Vickers Hardness (HV1)	ASTM E384
358	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous alloys & products	Vickers Hardness (HV1)	ASTM E384
359	MECHANICAL-MECHANICAL PROPERTIES OF METALS	fusion welded unfired pressure vessels in ferrous & non-ferrous metals.	Face / Root / Side Bend (Mandrel Diameters 6 mm, 8 mm, 10 mm, 12 mm, 16 mm, 20 mm, 24 mm, 30 mm, 32 mm, 36 mm, 40 mm, 48 mm, 60 mm, 64 mm, 72 mm, 80 mm, 100 mm, 120 mm, 140 mm, 160 mm)	IS 2825 (Clause 8.5.9)
360	MECHANICAL-MECHANICAL PROPERTIES OF METALS	fusion welded unfired pressure vessels in ferrous & non-ferrous metals.	Fracture Test	IS 2825 (Clause 7.2.6.3 (a))
361	MECHANICAL-MECHANICAL PROPERTIES OF METALS	fusion welded unfired pressure vessels in ferrous & non-ferrous metals.	Nick Break Test	IS 2825 (Clause 8.5.10)
362	MECHANICAL-MECHANICAL PROPERTIES OF METALS	fusion welded unfired pressure vessels in ferrous & non-ferrous metals.	Tensile Strength	IS 2825 (Clause 8.6.1)
363	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FUSION WELDED JOINTS AND WELD METAL IN STEEL	Nick Break Test	IS 3600 (Part 8) (Clause 4)
364	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FUSION WELDED JOINTS AND WELD METAL IN STEEL	Tensile Strength	IS 3600 (Part 3)
365	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FUSION WELDED JOINTS AND WELD METAL IN STEEL	Face / Root Bend (Mandrel Diameters 6 mm, 8 mm, 10 mm, 12 mm, 16 mm, 20 mm, 24 mm, 30 mm, 32 mm, 36 mm, 40 mm, 48 mm, 60 mm, 64 mm, 72 mm, 80 mm, 100 mm, 120 mm, 140 mm, 160 mm)	IS 3600 : Part 5 (Section 6)



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366	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FUSION WELDED JOINTS AND WELD METAL IN STEEL	Impact Charpy V Notch test -196 °C to Room Temperature	IS 3600 : Part 2
367	MECHANICAL-MECHANICAL PROPERTIES OF METALS	HIGH STRENGTH DEFORMED STEEL BARS AND WIRES FOR CONCRETE REINFORCEMENT	Bend Test (Mandrel Diameters - 6 mm, 8 mm, 10 mm, 12 mm, 16 mm,20 mm, 24 mm, 30 mm,32 mm, 36 mm, 40 mm , 48 mm,60 mm, 64 mm,72 mm, 80 mm, 100 mm, 120 mm,140 mm,160 mm)	IS 1786
368	MECHANICAL-MECHANICAL PROPERTIES OF METALS	HIGH STRENGTH DEFORMED STEEL BARS AND WIRES FOR CONCRETE REINFORCEMENT	Rebend Test (Mandrel Diameters - 6 mm, 8 mm, 10 mm, 12 mm, 16 mm,20 mm, 24 mm, 30 mm,32 mm, 36 mm, 40 mm , 48 mm,60 mm, 64 mm,72 mm, 80 mm, 100 mm, 120 mm,140 mm,160 mm)	IS 1786
369	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Lean Duplex Austenitic / Ferritic Stainless Steels	TEST METHOD B—CHARPY V-NOTCH IMPACT TEST FOR DETERMINATION OF THE PRESENCE OF DETRIMENTAL PHASES IN LEAN DUPLEX STAINLESS STEELS	ASTM A1084-15a
370	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	% Elongation	IS 1608 : Part 1
371	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	% Elongation	ISO 6892-1
372	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	% Elongation (Temperature range of testing Room Temp to 900°C)	ASTM E21
373	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	% Elongation after fracture	ASTM E8/E8M
374	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	% Elongation (Temperature range of testing Room Temp to 900°C)	IS 1608 : Part 2
375	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	% Elongation (Temperature range of testing Room Temp to 900°C)	ISO 6892-2
376	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	IS 1599



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377	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test (Mandrel Diameters - 6 mm, 8 mm, 10 mm, 12 mm, 16 mm,20 mm, 24 mm, 30 mm,32 mm, 36 mm, 40 mm , 48 mm,60 mm, 64 mm,72 mm, 80 mm, 100 mm, 120 mm,140 mm,160 mm)	ISO 7438
378	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test (Mandrel Diameters - 6 mm, 8 mm, 10 mm, 12 mm, 16 mm,20 mm, 24 mm, 30 mm,32 mm, 36 mm, 40 mm , 48 mm,60 mm, 64 mm,72 mm, 80 mm, 100 mm, 120 mm,140 mm,160 mm)	ASTM E290
379	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic materials	Brinell Hardness (HBW 10/1000)	ASTM E10
380	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic materials	Brinell Hardness (HBW 10/1000)	IS 1500 : Part 1
381	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic materials	Brinell Hardness (HBW 10/1000)	ISO 6506-1
382	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic materials	Brinell Hardness (HBW 10/3000)	ASTM E10
383	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic materials	Brinell Hardness (HBW 10/3000)	IS 1500 : Part 1
384	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic materials	Brinell Hardness (HBW 10/3000)	ISO 6506-1
385	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic materials	Brinell Hardness (HBW 10/500)	ASTM E10
386	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic materials	Brinell Hardness (HBW 10/500)	IS 1500 : Part 1
387	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic materials	Brinell Hardness (HBW 10/500)	ISO 6506-1
388	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic materials	Brinell Hardness (HBW 2.5/187.5)	ASTM E10



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389	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Brinell Hardness (HBW 2.5/187.5)	IS 1500 : Part 1
390	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Brinell Hardness (HBW 2.5/187.5)	ISO 6506-1
391	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Brinell Hardness (HBW 5/750)	ASTM E10
392	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Brinell Hardness (HBW 5/750)	IS 1500 : Part 1
393	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Brinell Hardness (HBW 5/750)	ISO 6506-1
394	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Charpy impact - Lateral Expansion	ASTM E23
395	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Charpy impact - Lateral Expansion	ISO 148 - 1
396	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Charpy impact - Shear Fracture Appearance	ASTM E23
397	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Charpy impact - Shear Fracture Appearance	ISO 148 - 1
398	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Charpy Impact Test (V & U Notch) -196 °C to Room Temperature	IS 1757 : Part 1
399	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test (V & U Notch) -196 °C to Room Temperature	ISO 148 - 1
400	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test (V & U Notch) -196 °C to Room Temperature	ASTM E23
401	MECHANICAL-MECHANICAL PROPERTIES OF METALS	metallic materials	Drift expanding test	IS 2335
402	MECHANICAL-MECHANICAL PROPERTIES OF METALS	metallic materials	Drift expanding test	ISO 8493



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403	MECHANICAL-MECHANICAL PROPERTIES OF METALS	metallic materials	Flattening Test	IS 2328
404	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Izod Impact Test	IS 1598
405	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV0.3)	ASTM E92
406	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV0.3)	IS 1501 : Part 1
407	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV0.3)	ISO 6507-1
408	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV0.5)	ASTM E92
409	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV0.5)	IS 1501 : Part 1
410	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV0.5)	ISO 6507-1
411	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV1)	ASTM E92
412	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV1)	IS 1501 : Part 1
413	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV1)	ISO 6507-1
414	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Proof Strength (0.2% to 1.0%)	IS 1608 : Part 1
415	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Proof Strength (0.2% to 1.0%)	ISO 6892-1
416	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Reduction of Area %	ASTM E8/E8M



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417	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Reduction of Area %	IS 1608 : Part 1
418	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Reduction of Area %	ISO 6892-1
419	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Reduction of Area % (Temperature range of testing Room Temp to 900°C)	ASTM E21
420	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Reduction of Area % (Temperature range of testing Room Temp to 900°C)	IS 1608 : Part 2
421	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Reduction of Area % (Temperature range of testing Room Temp to 900°C)	ISO 6892-2
422	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Rockwell Hardness (HRA)	ASTM E18
423	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Rockwell Hardness (HRA)	IS 1586 : Part 1
424	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Rockwell Hardness (HRA)	ISO 6508-1
425	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Rockwell Hardness (HRBW)	ASTM E18
426	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Rockwell Hardness (HRBW)	IS 1586 : Part 1
427	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Rockwell Hardness (HRBW)	ISO 6508-1
428	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Rockwell Hardness (HRC)	ASTM E18
429	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Rockwell Hardness (HRC)	IS 1586 : Part 1
430	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Rockwell Hardness (HRC)	ISO 6508-1



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431	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Tensile Strength	ASTM E8/E8M
432	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Tensile Strength	IS 1608 : Part 1
433	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Tensile Strength	ISO 6892-1
434	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Tensile Strength (Temperature range of testing Room Temp to 900°C)	ASTM E21
435	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Tensile Strength (Temperature range of testing Room Temp to 900°C)	IS 1608 : Part 2
436	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Tensile Strength (Temperature range of testing Room Temp to 900°C)	ISO 6892-2
437	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers hardness (HV1)	ASTM E92
438	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers hardness (HV1)	IS 1501 : Part 1
439	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Vickers hardness (HV1)	ISO 6507-1
440	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers hardness (HV10)	ASTM E92
441	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers hardness (HV10)	IS 1501 : Part 1
442	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Vickers hardness (HV10)	ISO 6507-1
443	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers hardness (HV30)	ASTM E92
444	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers hardness (HV30)	IS 1501 : Part 1



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445	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Vickers hardness (HV30)	ISO 6507-1
446	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers hardness (HV5)	ASTM E92
447	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers hardness (HV5)	IS 1501 : Part 1
448	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Vickers hardness (HV5)	ISO 6507-1
449	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Yield Strength	IS 1608 : Part 1
450	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Yield Strength	ISO 6892-1
451	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Yield Strength (0.2% to 1% offset)	ASTM E8/E8M
452	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials — Tube	Flattening Test	ISO 8492
453	MECHANICAL-MECHANICAL PROPERTIES OF METALS	resistance spot and embossed projection welds	Tensile Shear Test	ISO 14273 (Clause 5.0)
454	MECHANICAL-MECHANICAL PROPERTIES OF METALS	resistance spot and projection welds	Chisel Test & Peel Test	ISO 10447
455	MECHANICAL-MECHANICAL PROPERTIES OF METALS	resistance spot, seam and embossed projection welds	Peel Test	ISO 14270
456	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Specialized Carbon and Alloy Steel Pipe	Flattening Test	ASTM A530/A530M
457	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Bend Test (Mandrel Diameters - 6 mm, 8 mm, 10 mm, 12 mm, 16 mm,20 mm, 24 mm, 30 mm,32 mm, 36 mm, 40 mm , 48 mm,60 mm, 64 mm,72 mm, 80 mm, 100 mm, 120 mm,140 mm,160 mm)	ASTM A370



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458	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Brinell Hardness (HBW 10/1000)	ASTM A370
459	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Brinell Hardness (HBW 10/3000)	ASTM A370
460	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Brinell Hardness (HBW 10/500)	ASTM A370
461	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Brinell Hardness (HBW 2.5/187.5)	ASTM A370
462	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Brinell Hardness (HBW 5/750)	ASTM A370
463	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Charpy impact - Lateral Expansion	ASTM A370
464	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Charpy impact - Shear Fracture Appearance	ASTM A370
465	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Charpy Impact Test (V Notch) -196 °C to Room Temperature	ASTM A370
466	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Crush Test	ASTM A370
467	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Elongation at fracture in %	ASTM A370
468	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Flaring Test	ASTM A370
469	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Flattening Test	ASTM A370
470	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Reduction of Area %	ASTM A370
471	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Rockwell Hardness (HRA)	ASTM A370



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472	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Rockwell Hardness (HRBW)	ASTM A370
473	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Rockwell Hardness (HRC)	ASTM A370
474	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Strength	ASTM A370
475	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Yield Strength	ASTM A370
476	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Yield Strength (0.1% to 1.0% offset)	ASTM A370
477	MECHANICAL-MECHANICAL PROPERTIES OF METALS	welded Stainless Steel structures and weldments	Face / Root / Side Bend (Mandrel Diameters 6 mm, 8 mm, 10 mm, 12 mm, 16 mm, 20 mm, 24 mm, 30 mm, 32 mm, 36 mm, 40 mm, 48 mm, 60 mm, 64 mm, 72 mm, 80 mm, 100 mm, 120 mm, 140 mm, 160 mm)	AWS D1.6/D1.6M (Clause 6.9.3.2)
478	MECHANICAL-MECHANICAL PROPERTIES OF METALS	welded Stainless Steel structures and weldments	Fracture Test	AWS D1.6/D1.6M (Clause 6.10.3 & 6.15.8)-AMD1
479	MECHANICAL-MECHANICAL PROPERTIES OF METALS	welded Stainless Steel structures and weldments	Tensile Strength	AWS D1.6/D1.6M (Clause 6.9.3.3)-AMD1
480	MECHANICAL-MECHANICAL PROPERTIES OF METALS	welded steel structures	Fracture Test	AWS D1.1/D1.1M (Clause 6.13.2)
481	MECHANICAL-MECHANICAL PROPERTIES OF METALS	welded steel structures	Tensile Strength	AWS D1.1/D1.1M (Clause 6.10.3.4)
482	MECHANICAL-MECHANICAL PROPERTIES OF METALS	welded steel structures and weldments	Face / Root / Side Bend (Mandrel Diameters 6 mm, 8 mm, 10 mm, 12 mm, 16 mm, 20 mm, 24 mm, 30 mm, 32 mm, 36 mm, 40 mm, 48 mm, 60 mm, 64 mm, 72 mm, 80 mm, 100 mm, 120 mm, 140 mm, 160 mm)	AWS D1.1/D1.1M (Clause 6.10.3.1)



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483	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welding of Pipelines	Face / Root / Side Bend (Mandrel Diameters 6 mm, 8 mm, 10 mm, 12 mm, 16 mm, 20 mm, 24 mm, 30 mm, 32 mm, 36 mm, 40 mm, 48 mm, 60 mm, 64 mm, 72 mm, 80 mm, 100 mm, 120 mm, 140 mm, 160 mm)	API 1104 (Clause 5.6.4, 5.6.5 & 6.5.3)
484	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welding of Pipelines	Nick Break Test	API 1104 (Clause 5.6.3 & 6.5.2)
485	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welding of Pipelines	Tensile Strength	API 1104 (Clause 5.6.2)
486	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & Weld Test Specimens	Fillet Weld Break Test	AWS B4.0 (Clause 9.2)
487	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & Weld Test Specimens	Fracture Test	ASME SEC IX (QW-182)
488	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & Weld Test Specimens	Fracture Test	IS 3600 (Part 8) (Clause 5)
489	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & Weld Test Specimens	Nick Break Test	AWS B4.0 (Clause 9.1)
490	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & Weld Test Specimens	Root / Face / Side Bend (Mandrel Diameters 6 mm, 8 mm, 10 mm, 12 mm, 16 mm, 20 mm, 24 mm, 30 mm, 32 mm, 36 mm, 40 mm, 48 mm, 60 mm, 64 mm, 72 mm, 80 mm, 100 mm, 120 mm, 140 mm, 160 mm)	ASME Sec IX (QW-160)
491	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Chisel Test & Peel Test	AWS B4.0 (Clause 11.2.7)
492	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Elongation %	AWS B4.0 (Clause 4.8)



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493	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Face / Root / Side Bend (Mandrel Diameters 6 mm, 8 mm, 10 mm, 12 mm, 16 mm, 20 mm, 24 mm, 30 mm, 32 mm, 36 mm, 40 mm, 48 mm, 60 mm, 64 mm, 72 mm, 80 mm, 100 mm, 120 mm, 140 mm, 160 mm)	AWS B4.0 (Clause 6.8.2)
494	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Peel Test	ASME SEC IX (QW-196.2.2)
495	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Reduction of area %	AWS B4.0 (Clause 4.8)
496	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Shear Test	ASME SEC IX (QW-196.2.1)
497	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Tensile Strength	ASME SEC IX (QW-150)
498	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Tension Shear Test	AWS B4.0 (Clause 11.2.8.1(1))
499	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Ultimate tensile strength (UTS)	AWS B4.0 (Clause 4.8)
500	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Yield Strength (0.2, 0.5 & 1.0% offset)	AWS B4.0 (Clause 4.8)
501	MECHANICAL- MECHANICAL PROPERTIES OF METALS	welds in ferrous and nonferrous products	Face / Root / Side Bend (Mandrel Diameters 6 mm, 8 mm, 10 mm, 12 mm, 16 mm, 20 mm, 24 mm, 30 mm, 32 mm, 36 mm, 40 mm, 48 mm, 60 mm, 64 mm, 72 mm, 80 mm, 100 mm, 120 mm, 140 mm, 160 mm)	ASTM E190
502	MECHANICAL- MECHANICAL PROPERTIES OF METALS	welds in metallic materials	Fracture Test	IBR Cl.No.611 (b)
503	MECHANICAL- MECHANICAL PROPERTIES OF METALS	welds in metallic materials	Fracture Test	ISO 9017 (Clause 8.1 & 8.2)
504	MECHANICAL- MECHANICAL PROPERTIES OF METALS	welds in metallic materials	Micro Vickers Hardness	ISO 9015-2



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505	MECHANICAL-MECHANICAL PROPERTIES OF METALS	welds in metallic materials	Micro Vickers Hardness	ISO 9015-2
506	MECHANICAL-MECHANICAL PROPERTIES OF METALS	welds in metallic materials	Micro Vickers Hardness	ISO 9015-2
507	MECHANICAL-MECHANICAL PROPERTIES OF METALS	welds in metallic materials	Nick Break Test	IBR Cl.No.411
508	MECHANICAL-MECHANICAL PROPERTIES OF METALS	welds in metallic materials	Root / Face / Side Bend (Mandrel Diameters 6 mm, 8 mm, 10 mm, 12 mm, 16 mm, 20 mm, 24 mm, 30 mm, 32 mm, 36 mm, 40 mm, 48 mm, 60 mm, 64 mm, 72 mm, 80 mm, 100 mm, 120 mm, 140 mm, 160 mm)	IBR Cl.No.262
509	MECHANICAL-MECHANICAL PROPERTIES OF METALS	welds in metallic materials	Root / Face / Side Bend (Mandrel Diameters 6 mm, 8 mm, 10 mm, 12 mm, 16 mm, 20 mm, 24 mm, 30 mm, 32 mm, 36 mm, 40 mm, 48 mm, 60 mm, 64 mm, 72 mm, 80 mm, 100 mm, 120 mm, 140 mm, 160 mm)	ISO 5173 (Clause 6.2)
510	MECHANICAL-MECHANICAL PROPERTIES OF METALS	welds in metallic materials	Tensile Strength	IBR Cl.No.418
511	MECHANICAL-MECHANICAL PROPERTIES OF METALS	welds in metallic materials	Transverse Tensile Test	ISO 4136
512	MECHANICAL-MECHANICAL PROPERTIES OF METALS	welds in metallic materials	Vickers hardness	ISO 9015-1
513	MECHANICAL-MECHANICAL PROPERTIES OF METALS	welds in metallic materials	Vickers hardness	ISO 9015-1
514	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium-Alloy Products	% of Elongation after fracture	ASTM B557M-15
515	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium-Alloy Products	Reduction of Area %	ASTM B557M-15
516	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium-Alloy Products	Tensile Strength	ASTM B557M-15



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517	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium-Alloy Products	Yield Strength (0.2% to 1.0% offset)	ASTM B557M-15
518	MECHANICAL-METALLOGRAPHY TEST	Austenitic and ferritic-austenitic (duplex) stainless steels	intergranular corrosion in nitric acid medium by measurement of loss in mass (HUEY TEST)	ISO 3651-1
519	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	Detecting Susceptibility to Intergranular Attack -Practice A (Oxalic Acid Etch Test)	ASTM A262
520	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	Detecting Susceptibility to Intergranular Attack -Practice B—Ferric Sulfate-Sulfuric Acid Test	ASTM A262
521	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	Detecting Susceptibility to Intergranular Attack -Practice C—Nitric Acid Test	ASTM A262
522	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	Detecting Susceptibility to Intergranular Attack -Practice E—Copper-Copper Sulfate-Sulfuric Acid Test	ASTM A262
523	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	Detecting Susceptibility to Intergranular Attack -Practice F—Copper-Copper Sulfate-50 % Sulfuric Acid Test	ASTM A262
524	MECHANICAL-METALLOGRAPHY TEST	Brazed joints	Macro & Micro examination	BS EN 12797 (clause 6.4 a) & 6.4 b))
525	MECHANICAL-METALLOGRAPHY TEST	Brazing in metallic materials	SECTION TEST	ASME SEC IX (QB-181)
526	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Micro examination	IS 7754
527	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Micro examination	ISO/TR 945-3
528	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Microexamination	ISO 945-1
529	MECHANICAL-METALLOGRAPHY TEST	Copper and copper alloys	Grain size	ISO 2624
530	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	Determining Volume Fraction by Systematic Manual Point count	ASTM E562
531	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	Test Method A—Sodium Hydroxide Etch Test	ASTM A923
532	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	TEST METHOD C—FERRIC CHLORIDE CORROSION TEST	ASTM A923



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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
533	MECHANICAL-METALLOGRAPHY TEST	Electroplated coatings on Metals	coating thickness	IS 3203 (Clause 3)
534	MECHANICAL-METALLOGRAPHY TEST	Ferritic / austenitic (duplex) stainless steels	Microstructural examination & Ferrite content measurement	ISO 17781 (Section 5.2 & 5.3)
535	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steels	Practice W—Oxalic acid etch test	ASTM A763
536	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steels	Practice X—Ferric sulfate-sulfuric acid test	ASTM A763
537	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steels	Practice X—Ferric sulfate-sulfuric acid test	ASTM A763
538	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steels	Practice Y—Copper-copper sulfate-50 % sulfuric acid test	ASTM A763
539	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steels	Practice Y—Copper-copper sulfate-50 % sulfuric acid test	ASTM A763
540	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steels	Practice Z—Copper-copper sulfate-16 % sulfuric acid test	ASTM A763
541	MECHANICAL-METALLOGRAPHY TEST	Ferritic, austenitic and ferritic-austenitic (duplex) stainless steels	Resistance to intergranular corrosion of stainless steels (METHOD A, B & C)	ISO 3651-2
542	MECHANICAL-METALLOGRAPHY TEST	Ferritic/austenitic (duplex) stainless steels	Ferric chloride corrosion test	ISO 17781 (Section 5.5)
543	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Alloys & its Products	Grain size	ASTM E112
544	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Alloys & its Products	Micro & Macro examination	ASM METALS HAND BOOK VOL-09
545	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Case Depth (Hardness Traverse method)	SAE J423 (section 5.2)
546	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Case Depth (Microscopic method)	SAE J423 (section 6.3)
547	MECHANICAL-METALLOGRAPHY TEST	Fusion welded unfired pressure vessels in ferrous & non-ferrous metals	Macro Examination	IS 2825 (Clause 8.6.5 , 8.5.11 & 7.2.6.3 (b))
548	MECHANICAL-METALLOGRAPHY TEST	FUSION WELDED JOINTS AND WELD METAL IN STEEL	Macro & Micro examination	IS 3600 (Part 9)
549	MECHANICAL-METALLOGRAPHY TEST	Grey cast iron and SG iron products	Microexamination	ASM METALS HAND BOOK VOL-09
550	MECHANICAL-METALLOGRAPHY TEST	Hardened and Tempered Threaded Steel Bolts, Screws, Studs, and Nuts	Determining Decarburization and Carburization	ASTM F2328-17
551	MECHANICAL-METALLOGRAPHY TEST	Iron Castings	Microexamination	ASTM A247
552	MECHANICAL-METALLOGRAPHY TEST	Lean Duplex Austenitic / Ferritic Stainless Steels	Test Method C - Inhibited Ferric Chloride Corrosion Test	ASTM A1084

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553	MECHANICAL-METALLOGRAPHY TEST	Lean Duplex Austenitic/Ferritic Stainless Steels	Test Method A - Etch Method	ASTM A1084
554	MECHANICAL-METALLOGRAPHY TEST	Metal and Oxide coatings	Coating thickness	ASTM B487
555	MECHANICAL-METALLOGRAPHY TEST	Metallic and Oxide coating on Metals	Coating thickness	ISO 1463
556	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	Macroetch test	ASTM E340
557	MECHANICAL-METALLOGRAPHY TEST	Rolled or forged steel products	non-metallic inclusion	IS 4163
558	MECHANICAL-METALLOGRAPHY TEST	Stainless steels and related alloys	Method A—Ferric chloride pitting test	ASTM G48
559	MECHANICAL-METALLOGRAPHY TEST	Stainless steels and related alloys	Method B—Ferric chloride crevice test	ASTM G48
560	MECHANICAL-METALLOGRAPHY TEST	Stainless steels and related alloys	Method C—Critical pitting temperature test for nickel base and chromium-bearing alloys	ASTM G48
561	MECHANICAL-METALLOGRAPHY TEST	Stainless steels and related alloys	Method D—Critical crevice temperature test for nickel-base and chromium-bearing alloys	ASTM G48
562	MECHANICAL-METALLOGRAPHY TEST	Stainless steels and related alloys	Method E—Critical pitting temperature test for stainless steels	ASTM G48
563	MECHANICAL-METALLOGRAPHY TEST	Stainless steels and related alloys	Method F—Critical crevice temperature test for stainless steels	ASTM G48
564	MECHANICAL-METALLOGRAPHY TEST	Steel & its Products	Decarburization Depth	IS 6396
565	MECHANICAL-METALLOGRAPHY TEST	Steel & its Products	Case Depth (Hardness method)	IS 6416 (Clause 5)
566	MECHANICAL-METALLOGRAPHY TEST	Steel & its Products	Case Depth (Microscopic method)	IS 6416 (Clause 8)
567	MECHANICAL-METALLOGRAPHY TEST	Steel & its Products	Depth of Decarburization	ASTM E1077
568	MECHANICAL-METALLOGRAPHY TEST	Steel & its Products	Depth of Decarburization	ISO 3887 (Section 5.2 & 5.3)
569	MECHANICAL-METALLOGRAPHY TEST	Steel & its Products	Grain size	IS 4748
570	MECHANICAL-METALLOGRAPHY TEST	Steel & its Products	Grain size	ISO 643

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571	MECHANICAL-METALLOGRAPHY TEST	Steel & its Products	Inclusion content	ASTM E45 (Section 6)
572	MECHANICAL-METALLOGRAPHY TEST	Steel & its Products	Measuring the total or effective thickness of thin surface-hardened layers (micrographic method)	IS 13691 (Clause 2.1)
573	MECHANICAL-METALLOGRAPHY TEST	Steel & its Products	Non-metallic inclusions (Group A, B, C, D & DS with Fine, Thick) (Index number 0.5 to 3)	ISO 4967
574	MECHANICAL-METALLOGRAPHY TEST	Steel & its Products	Surface-hardened Depth (Microscopic method)	ISO 18203 (Section 8.2)
575	MECHANICAL-METALLOGRAPHY TEST	Steel & its Products	Surface-hardened Depth (Hardness method)	ISO 18203 (Section 8.1)
576	MECHANICAL-METALLOGRAPHY TEST	Steel Bars, Billets, Blooms, and Forgings	Macroetch test (8X - 50X magnification)	ASTM E381
577	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macro Examination	ASME SEC IX (QW-183 , QW-184)
578	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macroetch test	AWS D1.1/D1.1M (Clause 6.10.4 & 6.23.2)
579	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macroetch test	AWS D1.6/D1.6M (Clause 6.8.1.1 , 6.9.3.4 & 6.15.7)-AMD1
580	MECHANICAL-METALLOGRAPHY TEST	welds in metallic materials	Macro & Micro examination	IBR cl.no.561(V)
581	MECHANICAL-METALLOGRAPHY TEST	welds in metallic materials	Macroscopic and microscopic examination	ISO 17639
582	MECHANICAL-METALLOGRAPHY TEST	WROUGHT ALUMINIUM AND ALUMINIUM ALLOY PRODUCTS	MACRO ETCH TEST	IS 12573
583	MECHANICAL-METALLOGRAPHY TEST	Wrought Steel Products	Macroetch test (8X - 50X magnification)	IS 11371
584	MECHANICAL-METALLOGRAPHY TEST	Wrought, Nickel-Rich, Chromium-Bearing Alloys	Method A- Ferric Sulfate-Sulfuric Acid Test	ASTM G28
585	MECHANICAL-METALLOGRAPHY TEST	Wrought, Nickel-Rich, Chromium-Bearing Alloys	Method B- Mixed Acid-Oxidizing Salt Test	ASTM G28