



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

ELCA QUALITY SYSTEMS & CALIBRATIONS PVT. LTD.

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

PLOT NO. S-152, S BLOCK, BHOSARI MIDC, PIMPRI CHINCHWAD, INDUSTRIAL AREA, PUNE,
MAHARASHTRA, INDIA

in the field of

TESTING

Certificate Number: TC-5744

Issue Date: 15/04/2022

Valid Until:

14/04/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity: ELCA QUALITY SYSTEMS & CALIBRATIONS PRIVATE LIMITED

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	ELCA QUALITY SYSTEMS & CALIBRATIONS PVT. LTD., PLOT NO. S-152, S BLOCK, BHOSARI MIDC, PIMPRI CHINCHWAD, INDUSTRIAL AREA, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5744	Page No	1 of 39
Validity	15/04/2022 to 14/04/2024	Last Amended on	16/05/2023

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 Metallic Materials	Salt spray test	ASTM B117
2	CHEMICAL- CORROSION TESTS	Coated Metallic Materials	Salt spray test	ISO 9227
3	CHEMICAL- CORROSION TESTS	Electroplated and Anodized Aluminium Coatings	Salt Spray Test	IS 9844
4	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Electrotechnical products	Cadmium	IEC 62321-3-1
5	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Electrotechnical products	Hexavalent Chromium (Spot Test)	ASTM D6492
6	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Electrotechnical products	Lead	IEC 62321-3-1
7	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Electrotechnical products	Mercury	IEC 62321-3-1
8	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Electrotechnical products	Total Bromine	IEC 62321-3-1
9	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Electrotechnical products	Total Chromium	IEC 62321-3-1
10	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Coated Metallic Material	Mass of Zinc Coating	IS 6745 No of Amendments 5
11	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Coated Metallic Material	Uniformity of Zinc Coating	IS 2633
12	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Chromium	ASTM E1251
13	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Chromium	IS : 11035
14	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	ASTM E1251
15	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	IS : 11035



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16	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	IS 504 (Part 3)
17	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	ASTM E1251
18	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	IS : 11035
19	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	IS 504 (Part 2)
20	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Lead	ASTM E1251
21	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	ASTM E1251
22	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	IS 11035
23	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	IS 504 (Part 6)
24	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E1251
25	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	IS : 11035
26	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	IS 504 (Part 5)
27	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E1251
28	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	IS 504 (Part 7)
29	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E1251
30	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	IS : 11035
31	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	IS 504 (Part 1)
32	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E1251
33	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Titanium	IS : 11035
34	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E1251



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35	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	IS : 11035
36	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	IS 504 (Part 4)
37	CHEMICAL- METALS & ALLOYS	Aluminium& its Alloys	Titanium	ASTM E1251
38	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Carbon	JIS G 1253
39	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Chromium	JIS G 1253
40	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Copper	JIS G 1253
41	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Manganese	JIS G 1253
42	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Molybdenum	JIS G 1253
43	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Nickel	IS 9879
44	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Nickel	JIS G 1253
45	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Niobium	JIS G 1253
46	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Nitrogen	ASTM E1019
47	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Nitrogen	JIS G 1253
48	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Oxygen	ASTM E1019
49	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Phosphorus	IS 9879
50	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Phosphorus	JIS G 1253
51	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Silicon	IS 9879
52	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Silicon	JIS G 1253
53	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Sulphur	IS 9879



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54	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Sulphur	JIS G 1253
55	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Titanium	JIS G 1253
56	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Carbon	ASTM E1086
57	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Chromium	ASTM E1086
58	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Copper	ASTM E1086
59	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Manganese	ASTM E1086
60	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Molybdenum	ASTM E1086
61	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Nickel	ASTM E1086
62	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Phosphorus	ASTM E1086
63	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Silicon	ASTM E1086
64	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Sulphur	ASTM E1086
65	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Carbon	IS 9879
66	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Chromium	IS 9879
67	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Copper	IS 9879
68	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Manganese	IS 9879
69	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Molybdenum	IS 9879
70	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E1019
71	CHEMICAL- METALS & ALLOYS	Cast iron	Carbon	ASTM E1999
72	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 15338



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73	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	JIS G 1253
74	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E1999
75	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E351,Sec 218-226
76	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E351,Sec.208-217, By AAS
77	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 12308 (Part 8)
78	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 15338
79	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	JIS G 1253
80	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E1999
81	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E351, Sec 81-88
82	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS 12308 (Part 12) By AAS
83	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS 15338
84	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	JIS G 1253
85	CHEMICAL- METALS & ALLOYS	Cast Iron	Magnesium	JIS G 1253
86	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E1999
87	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E351, Sec 152-159
88	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E351,Sec.9-18 By UV
89	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 12308 (Part 10)
90	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 15338
91	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	JIS G 1253



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92	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E1999
93	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E351,Sec.196-207 By UV
94	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	IS 15338
95	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	JIS G 1253
96	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E1999
97	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E351, Sec 168-175
98	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E351,Sec.176-185, By AAS
99	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS 12308 (Part 7)
100	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS 15338
101	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	JIS G 1253
102	CHEMICAL- METALS & ALLOYS	Cast Iron	Nitrogen	ASTM E1019
103	CHEMICAL- METALS & ALLOYS	Cast Iron	Oxygen	ASTM E1019
104	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E1999
105	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E351, Sec 160-167
106	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 12308 (Part 5)
107	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 15338
108	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	JIS G 1253
109	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999
110	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E351,Sec 46-52



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111	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 12308 (Part 6)
112	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 15338
113	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	JIS G 1253
114	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1019
115	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1999
116	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	IS 15338
117	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	JIS G 1253
118	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	BS EN 15079
119	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	IS 4027 (Part 9) By AAS
120	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	WI/CHE/03 Issue No 03 Feb 02
121	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	BS EN 15079
122	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	WI/CHE/03 Issue No 03 Feb 02
123	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	ASTM E478
124	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	IS : 4027 (Part 1)
125	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	IS : 440
126	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	IS 3685
127	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	BS EN 15079
128	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	IS 3187
129	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	IS 3685



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130	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	IS 4027 (Part 8)
131	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	IS 440
132	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	WI/CHE/03 Issue No 03 Feb 02
133	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	BS EN 15079
134	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	IS : 4027 (Part 1)
135	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	IS 3685
136	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	WI/CHE/03 Issue No 03 Feb 02
137	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	BS EN 15079
138	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	IS 3685
139	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	WI/CHE/03 Issue No 03 Feb 02
140	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	ASTM E478, Sec 55-62
141	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	BS EN 15079
142	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	IS : 440
143	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	IS 3187
144	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	IS 3685
145	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	WI/CHE/03 Issue No 03 Feb 02
146	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Oxygen	ASTM E2575
147	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	BS EN 15079
148	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	IS : 4027 (Part 3)



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149	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	IS : 440
150	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	IS 3685
151	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	WI/CHE/03 Issue No 03 Feb 02
152	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	BS EN 15079
153	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	IS 3685
154	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	IS 4027 (Part 10)
155	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	WI/CHE/03 Issue No 03 Feb 02
156	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	BS EN 15079
157	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	WI/CHE/03 Issue No 03 Feb 02
158	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	BS EN 15079
159	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	IS : 4027 (Part 6)
160	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	IS 3685
161	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	WI/CHE/03 Issue No 03 Feb 02
162	CHEMICAL- METALS & ALLOYS	Copper alloys	Aluminium	JIS H 1292
163	CHEMICAL- METALS & ALLOYS	Copper alloys	Antimony	JIS H 1292
164	CHEMICAL- METALS & ALLOYS	Copper alloys	Arsenic	JIS H 1292
165	CHEMICAL- METALS & ALLOYS	Copper alloys	Chromium	JIS H 1292
166	CHEMICAL- METALS & ALLOYS	Copper alloys	Cobalt	JIS H 1292
167	CHEMICAL- METALS & ALLOYS	Copper alloys	Copper	JIS H 1292



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168	CHEMICAL- METALS & ALLOYS	Copper alloys	Iron	JIS H 1292
169	CHEMICAL- METALS & ALLOYS	Copper alloys	Lead	JIS H 1292
170	CHEMICAL- METALS & ALLOYS	Copper alloys	Manganese	JIS H 1292
171	CHEMICAL- METALS & ALLOYS	Copper alloys	Nickel	JIS H 1292
172	CHEMICAL- METALS & ALLOYS	Copper alloys	Phosphorus	JIS H 1292
173	CHEMICAL- METALS & ALLOYS	Copper alloys	Silicon	JIS H 1292
174	CHEMICAL- METALS & ALLOYS	Copper alloys	Zinc	JIS H 1292
175	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Aluminium	JIS G 1253
176	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Aluminum	ASTM E415
177	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Aluminum	IS 8811
178	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Boron	ASTM E415
179	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Boron	JIS G 1253
180	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Carbon	ASTM E1019
181	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Carbon	ASTM E415
182	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Carbon	IS 228 (Part 20)
183	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Carbon	IS 8811
184	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Carbon	JIS G 1253
185	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Chromium	ASTM E350,sec 220-229, by AAS
186	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Chromium	ASTM E350,sec 230-238



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187	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Chromium	ASTM E415
188	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Chromium	IS : 228 (Part 6)
189	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Chromium	IS 8811
190	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Chromium	JIS G 1253
191	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Cobalt	ASTM E415
192	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Cobalt	JIS G 1253
193	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Copper	ASTM E350, sec 279-288, By AAS
194	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Copper	ASTM E415
195	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Copper	IS 228 (Part 15)
196	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Copper	IS 8811
197	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Copper	JIS G 1253
198	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Hydrogen	IS 228 (Part 22)
199	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Manganese	ASTM E350, Sec 164-171
200	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Manganese	ASTM E350, Sec 269-278, By AAS
201	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Manganese	ASTM E415
202	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Manganese	IS : 228 (Part 2)
203	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Manganese	IS 8811
204	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Manganese	JIS G 1253
205	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Molybdenum	ASTM E350,Sec.152-163 By UV



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206	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Molybdenum	ASTM E415
207	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Molybdenum	IS 8811
208	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Molybdenum	JIS G 1253
209	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Nickel	ASTM E350, sec 180-187
210	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Nickel	ASTM E350, sec 318-328, By AAS
211	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Nickel	ASTM E415
212	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Nickel	IS : 228 (Part 5)
213	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Nickel	IS 8811
214	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Nickel	JIS G 1253
215	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Niobium	ASTM E415
216	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Niobium	IS 8811
217	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Niobium	JIS G 1253
218	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Nitrogen	ASTM E1019
219	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Nitrogen	ASTM E415
220	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Nitrogen	JIS G 1253
221	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Oxygen	ASTM E1019
222	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Phosphorus	ASTM E350 Sec 172-179
223	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Phosphorus	ASTM E415
224	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Phosphorus	IS : 228 (Part 3)



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225	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Phosphorus	IS 8811
226	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Phosphorus	JIS G 1253
227	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Silicon	ASTM E 350,Sec.46-52
228	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Silicon	ASTM E415
229	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Silicon	IS 228 (Part 8)
230	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Silicon	IS 8811
231	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Silicon	JIS G 1253
232	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Sulphur	ASTM E1019
233	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Sulphur	ASTM E415
234	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Sulphur	IS 228 (Part 20)
235	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Sulphur	IS 8811
236	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Sulphur	JIS G 1253
237	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Titanium	ASTM E415
238	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Titanium	IS 8811
239	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Titanium	JIS G 1253
240	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Vanadium	ASTM E415
241	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Vanadium	IS 8811
242	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Vanadium	JIS G 1253
243	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Aluminium	ASTM E3047



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244	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Aluminium	WI/CHE/03 Issue No 03 Feb 02
245	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Carbon	ASTM E3047
246	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Carbon	WI/CHE/03, Issue No : 3 Feb 02
247	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Chromium	ASTM E3047
248	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Chromium	WI/CHE/03 Issue No 03 Feb 02
249	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Cobalt	ASTM E3047
250	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Cobalt	WI/CHE/03 Issue No 03 Feb 02
251	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Copper	ASTM E3047
252	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Copper	WI/CHE/03 Issue No 03 Feb 02
253	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Iron	ASTM E3047
254	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Iron	WI/CHE/03 Issue No 03 Feb 02
255	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Manganese	ASTM E3047
256	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Manganese	WI/CHE/03 Issue No 03 Feb 02
257	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Molybdenum	ASTM E3047
258	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Molybdenum	WI/CHE/03 Issue No 03 Feb 02
259	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Niobium	ASTM E3047
260	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Niobium	WI/CHE/03 Issue No 03 Feb 02
261	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Phosphorus	ASTM E3047
262	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Phosphorus	WI/CHE/03 Issue No 03 Feb 02



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263	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Silicon	ASTM E3047
264	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Sulphur	ASTM E3047
265	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Sulphur	WI/CHE/03 Issue No 03 Feb 02
266	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Titanium	ASTM E3047
267	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Titanium	WI/CHE/03 Issue No 03 Feb 02
268	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Tungsten	ASTM E3047
269	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Vanadium	ASTM E3047
270	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Vanadium	WI/CHE/03 Issue No 03 Feb 02
271	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	JIS G 1253
272	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	ASTM E1019
273	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 228 (Part 20)
274	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	JIS G 1253
275	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E353, Sec 212-220
276	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	JIS G 1253
277	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E353, Sec 82-89
278	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	JIS G 1253
279	CHEMICAL- METALS & ALLOYS	Stainless steel	Hydrogen	IS 228 (Part 22)
280	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E353,Sec.9-18 (by UV
281	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	JIS G 1253



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282	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E353,Sec.190-201 By UV
283	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 228 (Part 7)
284	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	JIS G 1253
285	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E353, Sec 172-179
286	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	JIS G 1253
287	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	JIS G 1253
288	CHEMICAL- METALS & ALLOYS	Stainless steel	Nitrogen	ASTM E1019
289	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	JIS G 1253
290	CHEMICAL- METALS & ALLOYS	Stainless steel	Oxygen	ASTM E1019
291	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E353 ,Sec 164-171
292	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	JIS G 1253
293	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E353, Sec 46-52
294	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	JIS G 1253
295	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1019
296	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 228 (Part 20)
297	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	JIS G 1253
298	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	JIS G 1253
299	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tungsten	JIS G 1253
300	CHEMICAL- METALS & ALLOYS	Steels (High alloy steels)	Nickel	IS : 228 (Part 5)



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301	CHEMICAL- METALS & ALLOYS	Steels(High alloy steels)	Silicon	IS 228 (Part 8)
302	CHEMICAL- METALS & ALLOYS	Steels(High alloy steels)	Chromium	IS : 228 (Part 6)
303	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Aluminium	WI/CHE/03 Issue No 03 Feb 02
304	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Carbon	WI/CHE/03 Issue No 03 Feb 02
305	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Copper	WI/CHE/03 Issue No 03 Feb 02
306	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Hydrogen	ASTM E1447
307	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Iron	WI/CHE/03 Issue No 03 Feb 02
308	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Manganese	WI/CHE/03 Issue No 03 Feb 02
309	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Molybdenum	WI/CHE/03 Issue No 03 Feb 02
310	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Nitrogen	ASTM E1409
311	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Oxygen	ASTM E1409
312	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Silicon	WI/CHE/03 Issue No 03 Feb 02
313	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Tungsten	WI/CHE/03 Issue No 03 Feb 02
314	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Vanadium	WI/CHE/03 Issue No 03 Feb 02
315	CHEMICAL- METALS & ALLOYS	Titanium& its Alloys	Aluminium	ASTM E2994
316	CHEMICAL- METALS & ALLOYS	Titanium& its Alloys	Chromium	ASTM E2994
317	CHEMICAL- METALS & ALLOYS	Titanium& its Alloys	Copper	ASTM E2994
318	CHEMICAL- METALS & ALLOYS	Titanium& its Alloys	Iron	ASTM E2994
319	CHEMICAL- METALS & ALLOYS	Titanium& its Alloys	Manganese	ASTM E2994



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320	CHEMICAL- METALS & ALLOYS	Titanium& its Alloys	Molybdenum	ASTM E2994
321	CHEMICAL- METALS & ALLOYS	Titanium& its Alloys	Nickel	ASTM E2994
322	CHEMICAL- METALS & ALLOYS	Titanium& its Alloys	Silicon	ASTM E2994
323	CHEMICAL- METALS & ALLOYS	Titanium& its Alloys	Vanadium	ASTM E2994
324	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	JIS G 1253
325	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	JIS G 1253
326	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	JIS G 1253
327	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	JIS G 1253
328	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	JIS G 1253
329	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	JIS G 1253
330	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	JIS G 1253
331	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	JIS G 1253
332	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	JIS G 1253
333	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	JIS G 1253
334	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Adhesion Test (Tape Test)	ASTM D3359
335	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Adhesion Test (Tape Test)	BS EN ISO 2409
336	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Bend Test (Conical Mandrel)	ASTM D522/D522M
337	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Bend test (Conical mandrel)	ISO 6860
338	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Gloss Test at 20°	ASTM D523



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339	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Gloss test at 20°	ISO 2813
340	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Gloss Test at 60°	ASTM D523
341	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Gloss test at 60°	ISO 2813
342	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Impact Resistance	ASTM D2794
343	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Pencil Hardness	ASTM D3363
344	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Products	Resistance to Household Chemicals	ASTM D1308
345	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Products	Solvent rub test	ASTM D5402
346	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Products	Water Resistance	ASTM D1735
347	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Products	Water Resistance	ASTM D2247
348	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Products	Water Resistance	ASTM D4585/D4585M
349	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Products	Water Resistance	ASTM D870
350	CHEMICAL- PLASTIC & RESINS	Plastic & plastic product	Determination of glass content-Method A	BS EN ISO 1172
351	CHEMICAL- PLASTIC & RESINS	Plastic & plastic product	Ash Content	ASTM D5630
352	CHEMICAL- PLASTIC & RESINS	Plastic & plastic product	Flammability	UL 94
353	CHEMICAL- PLASTIC & RESINS	Plastic & Plastic products	Polymer Identification	ASTM E1252
354	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & rubber product	Ash content	ASTM D297
355	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & rubber product	Ash Content	IS 3400 (Part 22)
356	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & rubber product	Polymer Identification	ASTM D3677
357	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & rubber product	Polymer Identification	IS 3400 (Part 22)



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358	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 10/500)	ASTM E10
359	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 10/500)	ISO 6506 -1
360	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 2.5/62.5)	ASTM E10
361	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 2.5/62.5)	IS 1500 (Part 1)
362	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 2.5/62.5)	ISO 6506 -1
363	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon steel and alloy steel - Bolts, screws and studs	Tensile Test (Elongation)	ISO 898-1
364	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon steel and alloy steel - Bolts, screws and studs	Tensile Test (Reduction Area)	ISO 898-1
365	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon steel and alloy steel - Bolts, screws and studs	Tensile Test (Ultimate Tensile Strength)	ISO 898-1
366	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon steel and alloy steel - Bolts, screws and studs	Tensile Test (Yield Stress 0.01% to 1% Proof Stress,,0.5% EUL)	ISO 898-1
367	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and Alloy Steel- Threaded Fasteners (Nut)	Proof Load	IS 1367 (Part 6)
368	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and Alloy Steel- Threaded Fasteners (Nut)	Proof Load	ISO 898-2
369	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and alloys -Fasteners -Bolts, Screws and Studs	Proof Load	IS 1367 (Part 3)
370	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and alloys -Fasteners-Bolts, Screws and Studs	Proof Load	ISO 898-1
371	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper-Alloy Pipe -Tube	Flaring Test	ASTM B153



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372	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper-Alloy Pipe -Tube	Flattening Test	ASTM B968
373	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Duplex, Austenite/Ferrite stainless steel	Charpy Impact test -Method B	ASTM A923
374	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferritic/Austenitic(Duplex) stainless steel	Charpy Impact V notch (Temp : -196°C to 30 ° C)	BS EN ISO 17781
375	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Coatings	Adhesion Test (by bend test method)	ASTM B571
376	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	ASTM E290
377	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	IS 1599
378	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	ISO 7438
379	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact U notch (Temp : -196°C to 30 ° C)	ASTM E23
380	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact U notch (Temp : -196°C to 30 ° C)	IS 1499
381	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact U notch (Temp : -196°C to 30 ° C)	ISO 148-1
382	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact V notch (Temp : -196°C to 30 ° C)	ASTM E23
383	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact V notch (Temp : -196°C to 30 ° C)	EN ISO 148-1
384	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact V notch (Temp : -196°C to 30 ° C)	IS 1757 (Part 1)
385	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Flanging Test	ISO 8494



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386	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 10/3000)	ASTM E10
387	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 10/3000)	IS 1500 (Part 1)
388	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 10/3000)	ISO 6506 -1
389	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 10/500)	IS 1500 (Part 1)
390	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 2.5/187.5)	ASTM E10
391	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 2.5/187.5)	IS 1500 (Part 1)
392	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 2.5/187.5)	ISO 6506-1
393	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 5/750)	ASTM E10
394	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 5/750)	IS 1500 (Part 1)
395	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 5/750)	ISO 6506-1
396	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Izod Impact @ room temperature	IS : 1598
397	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Izod Impact Test @ RT	B.S. 131 : Part 1
398	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.05)	ASTM E384
399	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.05)	ASTM E92



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400	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.05)	IS 1501 (Part 1)
401	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.1)	ASTM E384
402	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.1)	ASTM E92
403	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.1)	IS 1501 (Part 1)
404	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.2)	ASTM E384
405	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.2)	ASTM E92
406	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.2)	IS 1501 (Part 1)
407	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.3)	ASTM E384
408	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.3)	ASTM E92
409	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.3)	IS 1501 (Part 1)
410	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.5)	ASTM E384
411	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.5)	ASTM E92
412	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.5)	IS 1501 (Part 1)
413	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 1)	ASTM E384



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414	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 1)	ASTM E92
415	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 1)	IS 1501 (Part 1)
416	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRA	ASTM E18
417	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRA	IS 1586 (Part 1)
418	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRA	ISO 6508-1
419	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRBW	ASTM E18
420	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRBW	IS 1586 (Part 1)
421	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRBW	ISO 6508-1
422	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRC	ASTM E18
423	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRC	IS 1586 (Part 1)
424	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRC	ISO 6508-1
425	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 15N	ASTM E18
426	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 15N	IS 1586 (Part 1)
427	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 15N	ISO 6508-1



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428	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 15TW	ASTM E18
429	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 15TW	IS 1586 (Part 1)
430	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 15TW	ISO 6508-1
431	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 30N	ASTM E18
432	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 30N	IS 1586 (Part 1)
433	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 30N	ISO 6508-1
434	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 30TW	ASTM E18
435	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 30TW	IS 1586 (Part 1)
436	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 30TW	ISO 6508-1
437	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 45N	ASTM E18
438	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 45N	IS 1586 (Part 1)
439	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 45N	ISO 6508-1
440	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 45TW	ASTM E18
441	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 45TW	IS 1586 (Part 1)



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442	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 45TW	ISO 6508-1
443	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Elongation)	ASTM E8/E8M
444	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Elongation)	ISO 6892-1
445	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Elongation) : Load 0.1 kN to 1000 kN	IS 1608 (Part 1)
446	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Reduction Area)	ASTM E8/E8M
447	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Reduction Area)	IS 1608 (Part 1)
448	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Reduction Area)	ISO 6892-1
449	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Ultimate Tensile Strength)	ASTM E8/E8M
450	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Ultimate Tensile Strength)	IS 1608 (Part 1)
451	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Ultimate Tensile Strength)	ISO 6892-1
452	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Yield Stress : 0.01% to 1% Proof Stress,0.5% EUL)	IS 1608 (Part 1)
453	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Yield Stress 0.01% to 1% Proof Stress,0.5% EUL)	ASTM E8/E8M
454	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Yield Stress 0.01% to 1% Proof Stress,0.5% EUL)	ISO 6892-1
455	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test at elevated temperature (Elongation)	ASTM E21



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456	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile test at elevated temperature (Elongation)	ISO 6892-2
457	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test at elevated temperature (Reduction area)	ASTM E21
458	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test at elevated temperature (Reduction Area)	ISO 6892-2
459	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test at elevated temperature (Ultimate Tensile Strength)	ASTM E21
460	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test at elevated temperature (Ultimate Tensile Strength)	ISO 6892-2
461	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test at elevated temperature (Yield Stress 0.01% to 1% Proof Stress)	ASTM E21
462	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test at elevated temperature (Yield Stress 0.01% to 1% Proof Stress)	ISO 6892-2
463	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 10)	ASTM E92
464	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 10)	IS 1501 (Part 1)
465	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 10)	ISO 6507-1
466	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 30)	ASTM E92
467	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 30)	IS 1501 (Part 1)
468	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 30)	ISO 6507-1
469	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 5)	ASTM E92



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470	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 5)	IS 1501 (Part 1)
471	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 5)	ISO 6507-1
472	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials -Tube	Flanging Test	IS 2330
473	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials-Tube	Bend Test	ISO 8491
474	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials-Tube	Drift Expansion	IS 2335
475	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials-Tube	Drift Expansion Test	ISO 8493
476	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials-Tube	Flattening Test	IS 2328
477	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials-Tube	Flattening Test	ISO 8492
478	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic tubes	Bend Test	IS 2329
479	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforced Deformed Steel(Bars & Wires)	Rebend Test	IS 1786
480	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Plates	Through Thickness test-% of reduction area	ASTM A770
481	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel products	All weld tensile Test (Elongation)	ASTM A370
482	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel products	All weld tensile Test (Reduction Area)	ASTM A370
483	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel products	All weld tensile Test (Ultimate Tensile Strength)	ASTM A370



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484	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel products	All weld tensile Test (Yield Stress : 0.01% to 1% Proof Stress,0.5%0.5% EUL)	ASTM A370
485	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Bend Test	ASTM A370
486	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel products	Charpy Impact V notch (Temp : -196°C to 30 °C)	ASTM A370
487	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Crushing Test	ASTM A370
488	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel products	Flanging Test	ASTM A370
489	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Flaring Test	ASTM A370
490	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel products	Flattening Test	ASTM A370
491	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel products	Proof Load- Bolt	ASTM A370
492	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Reverse Flattening Test	ASTM A370
493	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Test (Elongation)	ASTM A370
494	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Test (Reduction Area)	ASTM A370
495	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel products	Tensile Test (Ultimate Tensile Strength)	ASTM A370
496	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel products	Tensile Test (Yield Stress 0.01% to 1% Proof Stress,0.5% EUL)	ASTM A370
497	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel products-Pipe	Bend Test	ASTM A370



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498	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel tubes	Crushing Test	IS 3601
499	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steels	Jominy end quench hardenability (Distance 1.5mm to 55.0mm)	IS 3848
500	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steels	Jominy end quench hardenability (Distance 1.5mm to 60mm)	ASTM A255
501	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Bend Test	API 1104
502	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds in metallic Materials	Bend Test	ASME Sec IX (QW-160)
503	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Bend Test	ISO 5173
504	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Charpy Impact test	ASME Sec VIII (DIV I , UG 84)
505	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Fillet Weld Test	ASME SEC IX (QW -182)
506	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Fracture Test	ISO 9017
507	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Mock-up (Pull out) Test	ASME SEC IX(QW-193)
508	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Nick Break Test	IS 2825
509	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Peel Test	ASME Sec IX(QW 193)
510	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Shear test	ASME Sec IX (QW-197)
511	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Tear test	ASME Sec IX (QW-197)



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Laboratory Name :	ELCA QUALITY SYSTEMS & CALIBRATIONS PVT. LTD., PLOT NO. S-152, S BLOCK, BHOSARI MIDC, PIMPRI CHINCHWAD, INDUSTRIAL AREA, PUNE, MAHARASHTRA, INDIA		
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512	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Tensile Test (Ultimate Tensile Strength) : Load 0.1 kN to 1000 kN	API 1104
513	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Tensile Test (Ultimate Tensile Strength) :Load 0.1 kN to 1000 kN	ASME Sec IX
514	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Tensile Test (Ultimate Tensile Strength) :Load 0.1 kN to 1000 kN	ISO 4136
515	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Tensile Test (Yield Stress) : Load 0.1 kN to 1000 kN	ASME Sec IX
516	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds in steel	Bend Test	AWS D1.1
517	MECHANICAL- METALLOGRAPHY TEST	Austenitic stainless steel	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels, test practice " A " by comparison method	ASTM A262
518	MECHANICAL- METALLOGRAPHY TEST	Austenitic Stainless Steel	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels, test practice " B "	ASTM A262
519	MECHANICAL- METALLOGRAPHY TEST	Austenitic stainless steel	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels, test practice " C "	ASTM A262
520	MECHANICAL- METALLOGRAPHY TEST	Austenitic stainless steel	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels, test practice " E "	ASTM A262
521	MECHANICAL- METALLOGRAPHY TEST	Austenitic stainless steel	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels, test practice " F "	ASTM A262
522	MECHANICAL- METALLOGRAPHY TEST	Case hardened steel	Case Depth by hardness Traverse method	IS 6416
523	MECHANICAL- METALLOGRAPHY TEST	Cast Irons	Designation of microstructure of graphite in cast iron	IS : 7754
524	MECHANICAL- METALLOGRAPHY TEST	Cast Irons	Evaluating the Microstructure of Graphite in Iron Castings	ASTM A247



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525	MECHANICAL-METALLOGRAPHY TEST	Cast Irons	Microstructure of cast irons	ISO 945-1
526	MECHANICAL-METALLOGRAPHY TEST	Duplex, Austenite/Ferrite stainless steel	Detecting Detrimental Intermetallic Phase test method A	ASTM A923
527	MECHANICAL-METALLOGRAPHY TEST	Duplex, Austenite/Ferrite stainless steel	Detecting Detrimental Intermetallic Phase test method C	ASTM A923
528	MECHANICAL-METALLOGRAPHY TEST	Ferritic/Austenitic(Duplex) stainless steel	Detecting Detrimental Intermetallic Phase test	BS EN ISO 17781
529	MECHANICAL-METALLOGRAPHY TEST	Ferritic/Austenitic(Duplex) stainless steel	Determining Volume Fraction by Systematic Manual Point Count	BS EN ISO 17781
530	MECHANICAL-METALLOGRAPHY TEST	Ferritic/Austenitic(Duplex) stainless steel	Pitting corrosion test	BS EN ISO 17781
531	MECHANICAL-METALLOGRAPHY TEST	Ferrous Product	Testing Local Thickness Of Electroplated Coatings by microscopic method	IS 3203
532	MECHANICAL-METALLOGRAPHY TEST	Magnetic Material	Measurement of Coating Thicknesses by the Magnetic Method	ASTM B499
533	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Determining Average Grain Size	ASTM E112
534	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Determining Volume Fraction by Systematic Manual Point Count	ASTM E562
535	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Micro Structure Analysis	ASM Handbook Vol 9
536	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Sulphide Stress Corrosion Cracking (SSCC) (Method A,B & C)	NACE TM0177
537	MECHANICAL-METALLOGRAPHY TEST	Painted, Plated, Coated Panels & Products	Determination of coating thickness by microscopic method(Method 4)	IS 101 (Part 3/sec2) -Method 4
538	MECHANICAL-METALLOGRAPHY TEST	Pipeline and Pressure Vessel Steels	Hydrogen Induced Cracking Test(HIC)	NACE TM0284
539	MECHANICAL-METALLOGRAPHY TEST	Special Steels	Determination of content of non-metallic inclusions	DIN 50602
540	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Estimating Ferrite Content by ferritoscope	ASTM A800/800M



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541	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Estimating Ferrite Content by Ferritoscope	ASTM A800/800M
542	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Crevice corrosion test :Practice B- Ferric chloride crevice test	ASTM G48
543	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Critical crevice temperature test : Practice D	ASTM G48
544	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Critical crevice temperature test : Practice F	ASTM G48
545	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Critical pitting temperature test : Practice C	ASTM G48
546	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Critical pitting temperature test : Practice E	ASTM G48
547	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Pitting corrosion test :Practice A- Ferric chloride pitting test	ASTM G48
548	MECHANICAL-METALLOGRAPHY TEST	Steel	Estimating the Depth of Decarburization	ASTM E1077
549	MECHANICAL-METALLOGRAPHY TEST	Steel	Measuring Case Depth by microscopic method	IS 6416
550	MECHANICAL-METALLOGRAPHY TEST	Steel	Measuring Decarburized Depth by microscopic method	IS 6396
551	MECHANICAL-METALLOGRAPHY TEST	Steel Bars, Billets, Blooms, and Forgings	Macroetch test for wrought steel products	IS 11371
552	MECHANICAL-METALLOGRAPHY TEST	Steel Bars, Billets, Blooms, and Forgings	Macroetch Testing	ASTM E381
553	MECHANICAL-METALLOGRAPHY TEST	Steel product	Macroetch testing, inspection and rating	IS 13015
554	MECHANICAL-METALLOGRAPHY TEST	Steel, nickel, titanium and their alloys	Macro Structure Analysis	BS EN ISO 5817
555	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of content of non-metallic inclusions	IS 4163
556	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of content of non-metallic inclusions	ISO 4967
557	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of the apparent Grain Size	EN ISO 643
558	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of the apparent Grain Size	IS 4748
559	MECHANICAL-METALLOGRAPHY TEST	Steels	Determining the Inclusion Content	ASTM E45



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560	MECHANICAL-METALLOGRAPHY TEST	Steels	Determining the inclusion rating	SEP 1572
561	MECHANICAL-METALLOGRAPHY TEST	Steels	Macro Structure Analysis	AWS D1.1
562	MECHANICAL-METALLOGRAPHY TEST	Steels	Macro Structure Analysis	BS EN 287-1
563	MECHANICAL-METALLOGRAPHY TEST	Steels	Macro Structure Analysis	BS EN ISO 9606-1
564	MECHANICAL-METALLOGRAPHY TEST	Steels	Microscopic examination of carbide structure in steels	SEP 1520
565	MECHANICAL-METALLOGRAPHY TEST	Steels, Nickel and Nickel alloy	Macro & Micro Structure Analysis	EN ISO 15614-1
566	MECHANICAL-METALLOGRAPHY TEST	Thermal spray coated products	Determination of area % porosity (Method A)	ASTM E2109
567	MECHANICAL-METALLOGRAPHY TEST	Welds in Metallic Materials	Macro & Micro Structure Analysis	ASME Sec IX
568	MECHANICAL-METALLOGRAPHY TEST	Welds in Metallic Materials	Macro & Micro Structure Analysis	IS 2825
569	MECHANICAL-METALLOGRAPHY TEST	Welds in Metallic Materials	Macro Structure Analysis	API 1104
570	MECHANICAL-METALLOGRAPHY TEST	Welds in Metallic Materials	Macro Structure Analysis	ASME Sec VIII
571	MECHANICAL-METALLOGRAPHY TEST	Wrought Nickel, rich Chromium Bearing alloys	Detecting Susceptibility to Intergranular Corrosion Test, Practice A	ASTM G28
572	MECHANICAL-METALLOGRAPHY TEST	Wrought Nickel, rich Chromium Bearing alloys	Detecting Susceptibility to Intergranular Corrosion Test, Practice B	ASTM G28
573	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Barcol Hardness	ASTM D2583
574	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Charpy Impact Strength	ASTM D6110
575	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Compressive Properties of Rigid Plastics	ASTM D695
576	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced Plastic Products	Deflection Temperature of Plastics (Heat Deflection Temperature - HDT)	ASTM D648



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577	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Density and Specific Gravity (Relative Density) of Plastics by Displacement	ASTM D792
578	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Flexural Strength	ASTM D790
579	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Izod Impact Strength	ASTM D256
580	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Lap Shear Strength of laminate	BS 4994
581	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Specific Gravity	ASTM D792
582	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Tensile Properties of Plastics- Elongation at break	ASTM D638
583	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Tensile Properties of Plastics- Tensile Strength at break	ASTM D638
584	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Water Absorption	ASTM D570
585	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Adhesive Strength	ASTM D3330/D3330M
586	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Charpy Impact Strength	ASTM D6110
587	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Compressive Properties of Rigid Plastics	ASTM D695
588	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Deflection Temperature of Plastics (Heat Deflection Temperature-HDT)	ASTM D648
589	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Density and Specific Gravity (Relative Density) of Plastics by Displacement	ASTM D792
590	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Density and Specific Gravity (Relative Density) of Plastics by Displacement	ASTM D792
591	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Durometer Hardness-Shore A	ASTM D2240
592	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Durometer Hardness-Shore D	ASTM D2240
593	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Izod Impact Strength	ASTM D256



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594	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Melt Flow Rate	ASTM D1238
595	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Tensile Properties of Plastics-Tensile Strength at break	ASTM D638
596	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Tensile Properties of Plastics-Elongation at break	ASTM D638
597	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Tensile Properties of Thin Plastic Sheeting-Elongation at Break	ASTM D882
598	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Tensile Properties of Thin Plastic Sheeting-Tensile Strength at break	ASTM D882
599	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Vicat softening temperature (VST)	DIN EN ISO 306
600	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Vicat Softening Temperature of Plastics	ASTM D1525
601	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Water Absorption of Plastics	ASTM D570
602	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Thermoplastic & elastomeric insulation & sheath	Tensile Properties of Plastics-Elongation at break	IS : 10810 (Part 7)
603	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Thermoplastic & elastomeric insulation & sheath	Tensile Properties of Plastics-Tensile Strength at break	IS : 10810 (Part 7)
604	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and Reinforced Plastics and Electrical Insulating Materials	Flexural Properties	ASTM D790
605	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber & Rubber products	Compression Set- Method B	ASTM D395
606	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber & Rubber products	Elongation at break	ASTM D412
607	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber & Rubber products	Tensile strength at break	ASTM D412
608	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Tensile Stress-Strain Properties - Tensile strength at break	ISO 37
609	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Determination of Density	IS 3400 (Part 9)
610	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Tensile Stress - Strain Properties -Tensile Strength at Break	IS 3400 (Part 1)
611	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Accelerated Ageing and Heat Resistance	ISO 188



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612	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Accelerated Ageing at 40°C to 250°C	IS 3400 (Part 4)
613	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Compression set at ambient & elevated temperature	ISO 815-1
614	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Compression set at ambient & elevated temperature	IS 3400 (Part 10/Sec1)
615	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Compression Set at Low Temperature	IS 3400 (Part 10/Sec2)
616	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Determination of Density	ISO 2781
617	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Determination of Effect of Liquids - Resistance to Liquids	IS 3400 (Part 6)
618	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Determination of the Effect of Liquids	ISO 1817
619	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Determination of the Effect of Liquids - Dimensional Change	IS 3400 (Part 6)
620	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Determination of the Effect of Liquids - Dimensional Change	ISO 1817
621	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Determination of the Effect of Liquids - Volume Change	IS 3400 (Part 6)
622	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Determination of the Effect of Liquids-Volume Change	ISO 1817
623	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Durometer Hardness Shore A	ASTM D2240
624	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Durometer Hardness Shore A	IS 3400 (Part 23/Sec1)
625	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Hardness Shore A	ISO 7619-1
626	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Resistance to Ozone Cracking - Static Strain Test	IS 3400 (Part 20)
627	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Tear Strength	IS 3400 (Part XVII)
628	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Tensile Stress-Strain Properties- Elongation at Break	IS 3400 (Part 1)
629	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Tensile Stress-Strain Properties- Elongation at Break	ISO 37
630	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Thermoplastic, elastomeric insulation & sheath	Tensile properties of rubber- Elongation at break	IS 10810 (Part 7)



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631	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Thermoplastic, elastomeric insulation & sheath	Tensile properties of rubber- Tensile strength	IS 10810 (Part 7)





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Site Facility				
1	CHEMICAL- METALS & ALLOYS	Cobalt Alloys	Chromium	ASTM E1476
2	CHEMICAL- METALS & ALLOYS	Cobalt Alloys	Cobalt	ASTM E1476
3	CHEMICAL- METALS & ALLOYS	Cobalt Alloys	Iron	ASTM E1476
4	CHEMICAL- METALS & ALLOYS	Cobalt Alloys	Molybdenum	ASTM E1476
5	CHEMICAL- METALS & ALLOYS	Cobalt Alloys	Tungsten	ASTM E1476
6	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Chromium	ASTM E1476
7	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Manganese	ASTM E1476
8	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Molybdenum	ASTM E1476
9	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Nickel	ASTM E1476
10	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Niobium	ASTM E1476
11	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Titanium	ASTM E1476
12	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Vanadium	ASTM E1476
13	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Iron	ASTM E1476
14	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Molybdenum	ASTM E1476
15	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Vanadium	ASTM E1476
16	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Test (Reduction Area)	ASTM A370