



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: 15/04/2024

Valid Until:

14/04/2026

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 Entity: 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		
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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	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



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11	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Coated Metallic Material	Uniformity of Zinc Coating	IS 2633
12	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Coated Metallic Material	Mass of Aluminium Zinc Metallic Coating	IS 15961
13	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Chromium	ASTM E1251
14	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Chromium	IS : 11035
15	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	ASTM E1251
16	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	IS : 11035
17	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	IS 504 (Part 3)
18	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	ASTM E1251
19	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	IS : 11035
20	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	IS 504 (Part 2)
21	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Lead	ASTM E1251
22	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	ASTM E1251
23	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	IS 11035
24	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	IS 504 (Part 6)
25	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E1251



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26	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	IS : 11035
27	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	IS 504 (Part 5)
28	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E1251
29	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	IS 504 (Part 7)
30	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E1251
31	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	IS : 11035
32	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	IS 504 (Part 1)
33	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E1251
34	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Titanium	IS : 11035
35	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E1251
36	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	IS : 11035
37	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	IS 504 (Part 4)
38	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Titanium	ASTM E1251
39	CHEMICAL- METALS & ALLOYS	Austenitic & Ferritic Stainless Steels	Cobalt	JIS G 1253
40	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless steel	Hydrogen	WI/CHE/03 Issue No 04 Dec 05
41	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Aluminium	JIS G 1253



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42	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Carbon	IS 9879
43	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Carbon	JIS G 1253
44	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Chromium	IS 9879
45	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Chromium	JIS G 1253
46	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Copper	JIS G 1253
47	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Manganese	IS 9879
48	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Manganese	JIS G 1253
49	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Molybdenum	IS 9879
50	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Molybdenum	JIS G 1253
51	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Nickel	IS 9879
52	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Nickel	JIS G 1253
53	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Niobium	JIS G 1253
54	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Nitrogen	ASTM E1019
55	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Nitrogen	JIS G 1253
56	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Oxygen	ASTM E1019
57	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Phosphorus	IS 9879



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58	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Phosphorus	JIS G 1253
59	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Silicon	IS 9879
60	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Silicon	JIS G 1253
61	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Sulphur	IS 9879
62	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Sulphur	JIS G 1253
63	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Titanium	JIS G 1253
64	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Tungsten	JIS G 1253
65	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Carbon	ASTM E1086
66	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Chromium	ASTM E1086
67	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Copper	ASTM E1086
68	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Manganese	ASTM E1086
69	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Molybdenum	ASTM E1086
70	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Nickel	ASTM E1086
71	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Phosphorus	ASTM E1086
72	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Silicon	ASTM E1086
73	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Sulphur	ASTM E1086



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74	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E1019
75	CHEMICAL- METALS & ALLOYS	Cast iron	Carbon	ASTM E1999
76	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	JIS G 1253
77	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E1999
78	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E351,Sec 218-226
79	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E351,Sec.208-217, By AAS
80	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 12308 (Part 8)
81	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	JIS G 1253
82	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E1999
83	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E351, Sec 81-88
84	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS 12308 (Part 12) By AAS
85	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	JIS G 1253
86	CHEMICAL- METALS & ALLOYS	Cast Iron	Magnesium	JIS G 1253
87	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E1999
88	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E351, Sec 152-159
89	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E351,Sec.9-18 By UV



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90	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 12308 (Part 10)
91	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	JIS G 1253
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	JIS G 1253
95	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E1999
96	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E351, Sec 168-175
97	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS 12308 (Part 7)
98	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	JIS G 1253
99	CHEMICAL- METALS & ALLOYS	Cast Iron	Nitrogen	ASTM E1019
100	CHEMICAL- METALS & ALLOYS	Cast Iron	Oxygen	ASTM E1019
101	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E1999
102	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E351, Sec 160-167
103	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 12308 (Part 5)
104	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	JIS G 1253
105	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999



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106	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E351,Sec 46-52
107	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 12308 (Part 6)
108	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	JIS G 1253
109	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1019
110	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1999
111	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	JIS G 1253
112	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	BS EN 15079
113	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	IS 4027 (Part 9) By AAS
114	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	WI/CHE/03 Issue No 04 Dec 05
115	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	BS EN 15079
116	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	WI/CHE/03 Issue No 04 Dec 05
117	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	ASTM E478
118	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	IS : 4027 (Part 1)
119	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	IS : 440
120	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	IS 3685
121	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	BS EN 15079



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122	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	IS 3187
123	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	IS 3685
124	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	IS 4027 (Part 8)
125	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	IS 440
126	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	WI/CHE/03 Issue No 04 Dec 05
127	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	BS EN 15079
128	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	IS : 4027 (Part 1)
129	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	IS 3685
130	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	WI/CHE/03 Issue No 04 Dec 05
131	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	BS EN 15079
132	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	IS 3685
133	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	WI/CHE/03 Issue No 04 Dec 05
134	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	ASTM E478, Sec 55-62
135	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	BS EN 15079
136	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	IS : 440
137	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	IS 3187



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138	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	IS 3685
139	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	WI/CHE/03 Issue No 04 Dec 05
140	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Oxygen	ASTM E2575
141	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	BS EN 15079
142	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	IS : 4027 (Part 3)
143	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	IS : 440
144	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	IS 3685
145	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	WI/CHE/03 Issue No 04 Dec 05
146	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	BS EN 15079
147	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	IS 3685
148	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	IS 4027 (Part 10)
149	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	WI/CHE/03 Issue No 04 Dec 05
150	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	BS EN 15079
151	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	WI/CHE/03 Issue No 04 Dec 05
152	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	BS EN 15079
153	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	IS : 4027 (Part 6)



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154	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	IS 3685
155	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	WI/CHE/03 Issue No 04 Dec 05
156	CHEMICAL- METALS & ALLOYS	Copper alloys	Aluminium	JIS H 1292
157	CHEMICAL- METALS & ALLOYS	Copper alloys	Antimony	JIS H 1292
158	CHEMICAL- METALS & ALLOYS	Copper alloys	Arsenic	JIS H 1292
159	CHEMICAL- METALS & ALLOYS	Copper alloys	Chromium	JIS H 1292
160	CHEMICAL- METALS & ALLOYS	Copper alloys	Cobalt	JIS H 1292
161	CHEMICAL- METALS & ALLOYS	Copper alloys	Copper	JIS H 1292
162	CHEMICAL- METALS & ALLOYS	Copper alloys	Iron	JIS H 1292
163	CHEMICAL- METALS & ALLOYS	Copper alloys	Lead	JIS H 1292
164	CHEMICAL- METALS & ALLOYS	Copper alloys	Manganese	JIS H 1292
165	CHEMICAL- METALS & ALLOYS	Copper alloys	Nickel	JIS H 1292
166	CHEMICAL- METALS & ALLOYS	Copper alloys	Phosphorus	JIS H 1292
167	CHEMICAL- METALS & ALLOYS	Copper alloys	Silicon	JIS H 1292
168	CHEMICAL- METALS & ALLOYS	Copper alloys	Zinc	JIS H 1292
169	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Aluminium	JIS G 1253



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170	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Aluminum	ASTM E415
171	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Aluminum	IS 8811
172	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Boron	ASTM E415
173	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Boron	IS 8811
174	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Boron	JIS G 1253
175	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Carbon	ASTM E1019
176	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Carbon	ASTM E415
177	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Carbon	IS 228 (Part 20)
178	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Carbon	IS 8811
179	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Carbon	JIS G 1253
180	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Chromium	ASTM E350,sec 220-229, by AAS
181	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Chromium	ASTM E350,sec 230-238
182	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Chromium	ASTM E415
183	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Chromium	IS : 228 (Part 6)
184	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Chromium	IS 8811
185	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Chromium	JIS G 1253



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186	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Cobalt	ASTM E415
187	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Cobalt	IS 8811
188	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Cobalt	JIS G 1253
189	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Copper	ASTM E350, sec 279-288, By AAS
190	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Copper	ASTM E415
191	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Copper	IS 228 (Part 15)
192	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Copper	IS 8811
193	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Copper	JIS G 1253
194	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Hydrogen	WI/CHE/03 Issue No 04 Dec 05
195	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Manganese	ASTM E350, Sec 164-171
196	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Manganese	ASTM E350, Sec 269-278, By AAS
197	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Manganese	ASTM E415
198	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Manganese	IS : 228 (Part 2)
199	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Manganese	IS 8811
200	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Manganese	JIS G 1253
201	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Molybdenum	ASTM E350,Sec.152-163 By UV



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202	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Molybdenum	ASTM E415
203	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Molybdenum	IS 8811
204	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Molybdenum	JIS G 1253
205	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Nickel	ASTM E350, sec 180-187
206	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Nickel	ASTM E350, sec 318-328, By AAS
207	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Nickel	ASTM E415
208	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Nickel	IS : 228 (Part 5)
209	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Nickel	IS 8811
210	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Nickel	JIS G 1253
211	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Niobium	ASTM E415
212	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Niobium	IS 8811
213	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Niobium	JIS G 1253
214	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Nitrogen	ASTM E1019
215	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Nitrogen	ASTM E415
216	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Nitrogen	JIS G 1253
217	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Oxygen	ASTM E1019



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218	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Phosphorus	ASTM E350 Sec 172-179
219	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Phosphorus	ASTM E415
220	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Phosphorus	IS : 228 (Part 3)
221	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Phosphorus	IS 8811
222	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Phosphorus	JIS G 1253
223	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Silicon	ASTM E 350,Sec.46-52
224	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Silicon	ASTM E415
225	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Silicon	IS 228 (Part 8)
226	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Silicon	IS 8811
227	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Silicon	JIS G 1253
228	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Sulphur	ASTM E1019
229	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Sulphur	ASTM E415
230	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Sulphur	IS 228 (Part 20)
231	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Sulphur	IS 8811
232	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Sulphur	JIS G 1253
233	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Tin	ASTM E415



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234	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Titanium	ASTM E415
235	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Titanium	IS 8811
236	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Titanium	JIS G 1253
237	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Vanadium	ASTM E415
238	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Vanadium	IS 8811
239	CHEMICAL- METALS & ALLOYS	Low carbon, medium carbon & high carbon steel	Vanadium	JIS G 1253
240	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Aluminium	ASTM E3047
241	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Aluminium	WI/CHE/03 Issue No 04 Dec 05
242	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Carbon	ASTM E3047
243	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Carbon	WI/CHE/03 Issue No 04 Dec 05
244	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Chromium	ASTM E3047
245	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Chromium	WI/CHE/03 Issue No 04 Dec 05
246	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Cobalt	ASTM E3047
247	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Cobalt	WI/CHE/03 Issue No 04 Dec 05
248	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Copper	ASTM E3047
249	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Copper	WI/CHE/03 Issue No 04 Dec 05



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250	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Iron	ASTM E3047
251	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Iron	WI/CHE/03 Issue No 04 Dec 05
252	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Manganese	ASTM E3047
253	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Manganese	WI/CHE/03 Issue No 04 Dec 05
254	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Molybdenum	ASTM E3047
255	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Molybdenum	WI/CHE/03 Issue No 04 Dec 05
256	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Niobium	ASTM E3047
257	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Niobium	WI/CHE/03 Issue No 04 Dec 05
258	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Phosphorus	ASTM E3047
259	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Phosphorus	WI/CHE/03 Issue No 04 Dec 05
260	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Silicon	ASTM E3047
261	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Silicon	WI/CHE/03 Issue No 04 Dec 05
262	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Sulphur	ASTM E3047
263	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Sulphur	WI/CHE/03 Issue No 04 Dec 05
264	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Titanium	ASTM E3047
265	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Titanium	WI/CHE/03 Issue No 04 Dec 05



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266	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Tungsten	ASTM E3047
267	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Vanadium	ASTM E3047
268	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Vanadium	WI/CHE/03 Issue No 04 Dec 05
269	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	ASTM E1019
270	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 228 (Part 20)
271	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E353, Sec 212-220
272	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E353, Sec 82-89
273	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E353,Sec.9-18 (by UV
274	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E353,Sec.190-201 By UV
275	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 228 (Part 7)
276	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E353, Sec 172-179
277	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E353 ,Sec 164-171
278	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E353, Sec 46-52
279	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1019
280	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 228 (Part 20)
281	CHEMICAL- METALS & ALLOYS	Steels (High alloy steels)	Nickel	IS : 228 (Part 5)



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282	CHEMICAL- METALS & ALLOYS	Steels(High alloy steels)	Silicon	IS 228 (Part 8)
283	CHEMICAL- METALS & ALLOYS	Steels(High alloy steels)	Chromium	IS : 228 (Part 6)
284	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Carbon	WI/CHE/03 Issue No 04 Dec 05
285	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Hydrogen	ASTM E1447
286	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Nitrogen	ASTM E1409
287	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Oxygen	ASTM E1409
288	CHEMICAL- METALS & ALLOYS	Titanium& its Alloys	Aluminium	ASTM E2994
289	CHEMICAL- METALS & ALLOYS	Titanium& its Alloys	Chromium	ASTM E2994
290	CHEMICAL- METALS & ALLOYS	Titanium& its Alloys	Copper	ASTM E2994
291	CHEMICAL- METALS & ALLOYS	Titanium& its Alloys	Iron	ASTM E2994
292	CHEMICAL- METALS & ALLOYS	Titanium& its Alloys	Manganese	ASTM E2994
293	CHEMICAL- METALS & ALLOYS	Titanium& its Alloys	Molybdenum	ASTM E2994
294	CHEMICAL- METALS & ALLOYS	Titanium& its Alloys	Nickel	ASTM E2994
295	CHEMICAL- METALS & ALLOYS	Titanium& its Alloys	Silicon	ASTM E2994
296	CHEMICAL- METALS & ALLOYS	Titanium& its Alloys	Vanadium	ASTM E2994
297	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	JIS G 1253



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298	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	JIS G 1253
299	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	JIS G 1253
300	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	JIS G 1253
301	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	JIS G 1253
302	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	JIS G 1253
303	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	JIS G 1253
304	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	JIS G 1253
305	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	JIS G 1253
306	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	JIS G 1253
307	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Adhesion Test (Tape Test)	ASTM D3359
308	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Adhesion Test (Tape Test)	BS EN ISO 2409
309	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Adhesion Test (Tape Test)	IS 101 (Part 5/Sec 2)
310	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Bend Test (Conical Mandrel)	ASTM D522/D522M
311	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Bend test (Conical mandrel)	ISO 6860
312	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Gloss Test at 20°	ASTM D523
313	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Gloss test at 20°	ISO 2813



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314	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Gloss Test at 60°	ASTM D523
315	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Gloss test at 60°	ISO 2813
316	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Impact Resistance	ASTM D2794
317	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Pencil Hardness	ASTM D3363
318	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Product	Pencil Hardness	IS 101 (Part 5/Sec1)
319	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Products	Resistance to Household Chemicals	ASTM D1308
320	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Products	Solvent rub test	ASTM D5402
321	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Products	Water Resistance	ASTM D1735
322	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Products	Water Resistance	ASTM D2247
323	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Products	Water Resistance	ASTM D4585/D4585M
324	CHEMICAL- PAINTS & SURFACE COATING	Painted, Plated, Coated Panels & Products	Water Resistance	ASTM D870
325	CHEMICAL- PLASTIC & RESINS	Plastic & plastic product	Determination of glass content-Method A	BS EN ISO 1172
326	CHEMICAL- PLASTIC & RESINS	Plastic & plastic product	Ash Content	ASTM D5630
327	CHEMICAL- PLASTIC & RESINS	Plastic & plastic product	Flammability	UL 94
328	CHEMICAL- PLASTIC & RESINS	Plastic & Plastic Products	Ignition Loss Test	ASTM D2584
329	CHEMICAL- PLASTIC & RESINS	Plastic & Plastic products	Polymer Identification	ASTM E1252



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330	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & rubber product	Ash content	ASTM D297
331	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & rubber product	Ash Content	IS 3400 (Part 22)
332	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & rubber product	Polymer Identification	ASTM D3677
333	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & rubber product	Polymer Identification	IS 3400 (Part 22)
334	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 10/500)	ASTM E10
335	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 10/500)	ISO 6506 -1
336	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 2.5/62.5)	ASTM E10
337	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 2.5/62.5)	IS 1500 (Part 1)
338	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 2.5/62.5)	ISO 6506 -1
339	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon steel and alloy steel - Bolts, screws and studs	Tensile Test (Elongation)	ISO 898-1
340	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon steel and alloy steel - Bolts, screws and studs	Tensile Test (Reduction Area)	ISO 898-1



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341	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon steel and alloy steel - Bolts, screws and studs	Tensile Test (Ultimate Tensile Strength)	ISO 898-1
342	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
343	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and Alloy Steel- Threaded Fasteners (Nut)	Proof Load	IS 1367 (Part 6)
344	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and Alloy Steel- Threaded Fasteners (Nut)	Proof Load	ISO 898-2
345	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and alloys -Fasteners -Bolts, Screws and Studs	Proof Load	IS 1367 (Part 3)
346	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and alloys -Fasteners-Bolts, Screws and Studs	Proof Load	ISO 898-1
347	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper-Alloy Pipe -Tube	Flaring Test	ASTM B153
348	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper-Alloy Pipe -Tube	Flattening Test	ASTM B968
349	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Duplex, Austenite/Ferrite stainless steel	Charpy Impact test - Method B	ASTM A923



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350	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferritic/Austenitic(Duplex) stainless steel	Charpy Impact V notch (Temp : -196°C to 30 ° C)	BS EN ISO 17781
351	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Coatings	Adhesion Test (by bend test method)	ASTM B571
352	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	ASTM E290
353	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	IS 1599
354	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	ISO 7438
355	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact U notch (Temp : -196°C to 30 ° C)	ASTM E23
356	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact U notch (Temp : -196°C to 30 ° C)	ISO 148-1
357	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact V notch (Temp : -196°C to 30 ° C)	ASTM E23
358	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact V notch (Temp : -196°C to 30 ° C)	EN ISO 148-1



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359	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact V notch (Temp : -196°C to 30 °C)	IS 1757 (Part 1)
360	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Flanging Test	ISO 8494
361	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 10/3000)	ASTM E10
362	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 10/3000)	IS 1500 (Part 1)
363	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 10/3000)	ISO 6506 -1
364	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 10/500)	IS 1500 (Part 1)
365	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 2.5/187.5)	ASTM E10
366	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 2.5/187.5)	IS 1500 (Part 1)
367	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 2.5/187.5)	ISO 6506-1



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368	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 5/750)	ASTM E10
369	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 5/750)	IS 1500 (Part 1)
370	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardness by Brinell method (HBW 5/750)	ISO 6506-1
371	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Izod Impact @ room temperature	IS : 1598
372	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Izod Impact Test @ RT	B.S. 131 : Part 1
373	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.05)	ASTM E384
374	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.05)	ASTM E92
375	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.05)	IS 1501 (Part 1)
376	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.1)	ASTM E384



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377	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.1)	ASTM E92
378	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.1)	IS 1501 (Part 1)
379	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.2)	ASTM E384
380	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.2)	ASTM E92
381	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.2)	IS 1501 (Part 1)
382	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.3)	ASTM E384
383	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.3)	ASTM E92
384	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.3)	IS 1501 (Part 1)
385	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.5)	ASTM E384



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386	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.5)	ASTM E92
387	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 0.5)	IS 1501 (Part 1)
388	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 1)	ASTM E384
389	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 1)	ASTM E92
390	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness (HV 1)	IS 1501 (Part 1)
391	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRA	ASTM E18
392	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRA	IS 1586 (Part 1)
393	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRA	ISO 6508-1
394	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRBW	ASTM E18



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395	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRBW	IS 1586 (Part 1)
396	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRBW	ISO 6508-1
397	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRC	ASTM E18
398	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRC	IS 1586 (Part 1)
399	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness HRC	ISO 6508-1
400	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 15N	ASTM E18
401	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 15N	IS 1586 (Part 1)
402	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 15N	ISO 6508-1
403	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 15TW	ASTM E18



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404	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 15TW	IS 1586 (Part 1)
405	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 15TW	ISO 6508-1
406	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 30N	ASTM E18
407	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 30N	IS 1586 (Part 1)
408	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 30N	ISO 6508-1
409	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 30TW	ASTM E18
410	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 30TW	IS 1586 (Part 1)
411	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 30TW	ISO 6508-1
412	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 45N	ASTM E18



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413	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 45N	IS 1586 (Part 1)
414	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 45N	ISO 6508-1
415	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 45TW	ASTM E18
416	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 45TW	IS 1586 (Part 1)
417	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Superficial Hardness HR 45TW	ISO 6508-1
418	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Tensile Strength	IS 1608 (Part 1)
419	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Elongation)	ASTM E8/E8M
420	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Elongation)	IS 1608 (Part 1)
421	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Elongation)	ISO 6892-1



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422	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Reduction Area)	ASTM E8/E8M
423	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Reduction Area)	IS 1608 (Part 1)
424	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Reduction Area)	ISO 6892-1
425	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Ultimate Tensile Strength)	ASTM E8/E8M
426	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Ultimate Tensile Strength)	IS 1608 (Part 1)
427	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Ultimate Tensile Strength)	ISO 6892-1
428	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Yield Stress : 0.01% to 1% Proof Stress,0.5% EUL,0.6%EUL)	IS 1608 (Part 1)
429	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Yield Stress 0.01% to 1% Proof Stress,0.5% EUL,0.6%EUL)	ASTM E8/E8M
430	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test (Yield Stress 0.01% to 1% Proof Stress,0.5% EUL,0.6%EUL)	ISO 6892-1



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431	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test at elevated temperature (Elongation)	ASTM E21
432	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile test at elevated temperature (Elongation)	ISO 6892-2
433	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test at elevated temperature (Reduction area)	ASTM E21
434	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test at elevated temperature (Reduction Area)	ISO 6892-2
435	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test at elevated temperature (Ultimate Tensile Strength)	ASTM E21
436	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test at elevated temperature (Ultimate Tensile Strength)	ISO 6892-2
437	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test at elevated temperature (Yield Stress 0.01% to 1% Proof Stress)	ASTM E21
438	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test at elevated temperature (Yield Stress 0.01% to 1% Proof Stress)	ISO 6892-2
439	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 10)	ASTM E92



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440	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 10)	IS 1501 (Part 1)
441	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 10)	ISO 6507-1
442	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 30)	ASTM E92
443	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 30)	IS 1501 (Part 1)
444	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 30)	ISO 6507-1
445	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 5)	ASTM E92
446	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 5)	IS 1501 (Part 1)
447	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness (HV 5)	ISO 6507-1
448	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials -Tube	Flanging Test	IS 2330



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449	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials-Tube	Bend Test	ISO 8491
450	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials-Tube	Drift Expansion	IS 2335
451	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials-Tube	Drift Expansion Test	ISO 8493
452	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials-Tube	Flattening Test	IS 2328
453	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials-Tube	Flattening Test	ISO 8492
454	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic tubes	Bend Test	IS 2329
455	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced Deformed Steel(Bars & Wires)	Rebend Test	IS 1786
456	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sreel Products	Crushing Test	ASTM A370
457	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel - Fasteners (Nut)	Proof Load	ISO 3506 (Part 2)



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458	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Plates	Through Thickness test-% of reduction area	ASTM A770
459	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel products	All weld tensile Test (Elongation)	ASTM A370
460	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel products	All weld tensile Test (Reduction Area)	ASTM A370
461	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel products	All weld tensile Test (Ultimate Tensile Strength)	ASTM A370
462	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel products	All weld tensile Test (Yield Stress : 0.01% to 1% Proof Stress,0.5% EUL)	ASTM A370
463	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Bend Test	ASTM A370
464	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel products	Charpy Impact V notch (Temp : -196°C to 30 °C)	ASTM A370
465	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel products	Flanging Test	ASTM A370
466	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Flaring Test	ASTM A370



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467	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel products	Flattening Test	ASTM A370
468	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel products	Proof Load- Bolt	ASTM A370
469	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Reverse Flattening Test	ASTM A370
470	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Test (Elongation)	ASTM A370
471	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Test (Reduction Area)	ASTM A370
472	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel products	Tensile Test (Ultimate Tensile Strength)	ASTM A370
473	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel products	Tensile Test (Yield Stress 0.01% to 1% Proof Stress, 0.5% EUL, 0.6% EUL)	ASTM A370
474	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel products-Pipe	Bend Test	ASTM A370
475	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel tubes	Crushing Test	IS 3601



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476	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Jominy end quench hardenability (Distance 1.5mm to 55.0mm)	IS 3848
477	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Jominy end quench hardenability (Distance 1.5mm to 60mm)	ASTM A255
478	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Bend Test	API 1104
479	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in metallic Materials	Bend Test	ASME Sec IX (QW-160,QB-160))
480	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Bend Test	ISO 5173
481	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Charpy Impact test	ASME Sec VIII (DIV I , UG 84)
482	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Fillet Weld Test	ASME SEC IX (QW -182)
483	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Fracture Test	ISO 9017
484	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Mock-up (Pull out) Test	ASME SEC IX(QW-193)



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485	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Nick Break Test	IS 2825
486	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Peel Test	ASME Sec IX(QW 193, QB170)
487	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Shear test	ASME Sec IX (QW-197)
488	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Tear test	ASME Sec IX (QW-197)
489	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Tensile Test (Ultimate Tensile Strength)	API 1104
490	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Tensile Test (Ultimate Tensile Strength)	ASME Sec IX(QW 150)
491	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Tensile Test (Ultimate Tensile Strength)	ISO 4136
492	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in steel	Bend Test	AWS D1.1
493	MECHANICAL-METALLOGRAPHY TEST	Austenitic stainless steel	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels, test practice " A " by comparison method	ASTM A262



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494	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels, test practice " B "	ASTM A262
495	MECHANICAL-METALLOGRAPHY TEST	Austenitic stainless steel	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels, test practice " C "	ASTM A262
496	MECHANICAL-METALLOGRAPHY TEST	Austenitic stainless steel	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels, test practice " E "	ASTM A262
497	MECHANICAL-METALLOGRAPHY TEST	Austenitic stainless steel	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels, test practice " F "	ASTM A262
498	MECHANICAL-METALLOGRAPHY TEST	Case hardened steel	Case Depth by hardness Traverse method	IS 6416
499	MECHANICAL-METALLOGRAPHY TEST	Cast Irons	Designation of microstructure of graphite in cast iron	IS : 7754
500	MECHANICAL-METALLOGRAPHY TEST	Cast Irons	Evaluating the Microstructure of Graphite in Iron Castings	ASTM A247
501	MECHANICAL-METALLOGRAPHY TEST	Cast Irons	Microstructure of cast irons	ISO 945-1
502	MECHANICAL-METALLOGRAPHY TEST	Duplex, Austenite/Ferrite stainless steel	Detecting Detrimental Intermetallic Phase test method A	ASTM A923
503	MECHANICAL-METALLOGRAPHY TEST	Duplex, Austenite/Ferrite stainless steel	Detecting Detrimental Intermetallic Phase test method C	ASTM A923



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504	MECHANICAL-METALLOGRAPHY TEST	Ferritic/Austenitic(Duplex) stainless steel	Detecting Detrimental Intermetallic Phase test	BS EN ISO 17781
505	MECHANICAL-METALLOGRAPHY TEST	Ferritic/Austenitic(Duplex) stainless steel	Determining Volume Fraction by Systematic Manual Point Count	BS EN ISO 17781
506	MECHANICAL-METALLOGRAPHY TEST	Ferritic/Austenitic(Duplex) stainless steel	Pitting corrosion test	BS EN ISO 17781
507	MECHANICAL-METALLOGRAPHY TEST	Ferrous Product	Testing Local Thickness Of Electroplated Coatings by microscopic method	IS 3203
508	MECHANICAL-METALLOGRAPHY TEST	Magnetic Material	Measurement of Coating Thicknesses by the Magnetic Method	ASTM B499
509	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Determining Average Grain Size	ASTM E112
510	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Determining Volume Fraction by Systematic Manual Point Count	ASTM E562
511	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Micro Structure Analysis	ASM Handbook Vol 9
512	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Sulphide Stress Corrosion Cracking (SSCC) (Method A,B & C)	NACE TM0177
513	MECHANICAL-METALLOGRAPHY TEST	Painted, Plated, Coated Panels & Products	Determination of coating thickness by microscopic method(Method 4)	IS 101 (Part 3/sec2) - Method 4
514	MECHANICAL-METALLOGRAPHY TEST	Pipeline and Pressure Vessel Steels	Hydrogen Induced Cracking Test(HIC)	NACE TM0284
515	MECHANICAL-METALLOGRAPHY TEST	Special Steels	Determination of content of non-metallic inclusions	DIN 50602



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516	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Estimating Ferrite Content by ferriscope	ASTM A800/800M
517	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Estimating Ferrite Content by Ferriscope	ASTM A800/800M
518	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Crevice corrosion test :Practice B- Ferric chloride crevice test	ASTM G48
519	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Critical crevice temperature test : Practice D	ASTM G48
520	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Critical crevice temperature test : Practice F	ASTM G48
521	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Critical pitting temperature test : Practice C	ASTM G48
522	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Critical pitting temperature test : Practice E	ASTM G48
523	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Pitting corrosion test :Practice A- Ferric chloride pitting test	ASTM G48
524	MECHANICAL-METALLOGRAPHY TEST	Steel	Estimating the Depth of Decarburization	ASTM E1077
525	MECHANICAL-METALLOGRAPHY TEST	Steel	Measuring Case Depth by microscopic method	IS 6416
526	MECHANICAL-METALLOGRAPHY TEST	Steel	Measuring Decarburized Depth by microscopic method	IS 6396
527	MECHANICAL-METALLOGRAPHY TEST	Steel Bars, Billets, Blooms, and Forgings	Macroetch test for wrought steel products	IS 11371



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528	MECHANICAL-METALLOGRAPHY TEST	Steel Bars, Billets, Blooms, and Forgings	Macroetch Testing	ASTM E381
529	MECHANICAL-METALLOGRAPHY TEST	Steel product	Macroetch testing, inspection and rating	IS 13015
530	MECHANICAL-METALLOGRAPHY TEST	Steel, nickel, titanium and their alloys	Macro Structure Analysis	BS EN ISO 5817
531	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of content of non-metallic inclusions	IS 4163
532	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of content of non-metallic inclusions	ISO 4967
533	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of the apparent Grain Size	EN ISO 643
534	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of the apparent Grain Size	IS 4748
535	MECHANICAL-METALLOGRAPHY TEST	Steels	Determining the Inclusion Content	ASTM E45
536	MECHANICAL-METALLOGRAPHY TEST	Steels	Determining the inclusion rating	SEP 1572
537	MECHANICAL-METALLOGRAPHY TEST	Steels	Macro Structure Analysis	AWS D1.1
538	MECHANICAL-METALLOGRAPHY TEST	Steels	Macro Structure Analysis	BS EN 287-1
539	MECHANICAL-METALLOGRAPHY TEST	Steels	Macro Structure Analysis	BS EN ISO 9606-1



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540	MECHANICAL-METALLOGRAPHY TEST	Steels	Microscopic examination of carbide structure in steels	SEP 1520
541	MECHANICAL-METALLOGRAPHY TEST	Steels, Nickel and Nickel alloy	Macro & Micro Structure Analysis	EN ISO 15614-1
542	MECHANICAL-METALLOGRAPHY TEST	Thermal spray coated products	Determination of area % porosity (Method A)	ASTM E2109
543	MECHANICAL-METALLOGRAPHY TEST	Welds in Metallic Materials	Macro & Micro Structure Analysis	ASME Sec IX
544	MECHANICAL-METALLOGRAPHY TEST	Welds in Metallic Materials	Macro & Micro Structure Analysis	IS 2825
545	MECHANICAL-METALLOGRAPHY TEST	Welds in Metallic Materials	Macro Structure Analysis	API 1104
546	MECHANICAL-METALLOGRAPHY TEST	Welds in Metallic Materials	Macro Structure Analysis	ASME Sec VIII
547	MECHANICAL-METALLOGRAPHY TEST	Wrought Nickel, rich Chromium Bearing alloys	Detecting Susceptibility to Intergranular Corrosion Test, Practice A	ASTM G28
548	MECHANICAL-METALLOGRAPHY TEST	Wrought Nickel, rich Chromium Bearing alloys	Detecting Susceptibility to Intergranular Corrosion Test, Practice B	ASTM G28
549	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Charpy Impact Strength	ASTM D6110
550	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Compressive Properties of Rigid Plastics	ASTM D695
551	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced Plastic Products	Deflection Temperature of Plastics (Heat Deflection Temperature - HDT)	ASTM D648



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552	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Density and Specific Gravity (Relative Density) of Plastics by Displacement	ASTM D792
553	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Flexural Strength	ASTM D790
554	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Izod Impact Strength	ASTM D256
555	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Lap Shear Strength of laminate	BS 4994
556	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Specific Gravity	ASTM D792
557	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Tensile Properties of Plastics-Elongation at break	ASTM D638
558	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Tensile Properties of Plastics-Tensile Strength at break	ASTM D638
559	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Fibre reinforced plastic products	Water Absorption	ASTM D570
560	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Adhesive Strength	ASTM D3330/D3330M
561	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Charpy Impact Strength	ASTM D6110
562	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Compressive Properties of Rigid Plastics	ASTM D695



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563	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Deflection Temperature of Plastics (Heat Deflection Temperature-HDT)	ASTM D648
564	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Density and Specific Gravity (Relative Density) of Plastics by Displacement	ASTM D792
565	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Density and Specific Gravity (Relative Density) of Plastics by Displacement	ASTM D792
566	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Durometer Hardness-Shore A	ASTM D2240
567	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Durometer Hardness-Shore D	ASTM D2240
568	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Izod Impact Strength	ASTM D256
569	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Melt Flow Rate	ASTM D1238
570	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Tensile Properties of Plastics- Tensile Strength at break	ASTM D638
571	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Tensile Properties of Plastics-Elongation at break	ASTM D638
572	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Tensile Properties of Thin Plastic Sheeting- Elongation at Break	ASTM D882
573	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Tensile Properties of Thin Plastic Sheeting-Tensile Strength at break	ASTM D882



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574	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Vicat softening temperature (VST)	DIN EN ISO 306
575	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Vicat Softening Temperature of Plastics	ASTM D1525
576	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Water Absorption of Plastics	ASTM D570
577	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Thermoplastic & elastomeric insulation & sheath	Tensile Properties of Plastics-Elongation at break	IS : 10810 (Part 7)
578	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Thermoplastic & elastomeric insulation & sheath	Tensile Properties of Plastics-Tensile Strength at break	IS : 10810 (Part 7)
579	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Unreinforced and Reinforced Plastics and Electrical Insulating Materials	Flexural Properties	ASTM D790
580	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber & Rubber products	Compression Set- Method B	ASTM D395
581	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber & Rubber products	Elongation at break	ASTM D412
582	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber & Rubber products	Tensile strength at break	ASTM D412
583	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Tensile Stress-Strain Properties - Tensile strength at break	ISO 37
584	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Determination of Density	IS 3400 (Part 9)
585	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Tensile Stress - Strain Properties -Tensile Strength at Break	IS 3400 (Part 1)



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586	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Accelerated Ageing and Heat Resistance	ISO 188
587	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Accelerated Ageing at 40°C to 250°C	IS 3400 (Part 4)
588	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Compression set at ambient & elevated temperature	ISO 815-1
589	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Compression set at ambient & elevated temperature	IS 3400 (Part 10/Sec1)
590	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Compression Set at Low Temperature	IS 3400 (Part 10/Sec2)
591	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Determination of Density	ISO 2781
592	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Determination of Effect of Liquids - Resistance to Liquids	IS 3400 (Part 6)
593	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Determination of the Effect of Liquids	ISO 1817
594	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Determination of the Effect of Liquids - Dimensional Change	IS 3400 (Part 6)
595	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Determination of the Effect of Liquids - Dimensional Change	ISO 1817
596	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Determination of the Effect of Liquids - Volume Change	IS 3400 (Part 6)
597	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Determination of the Effect of Liquids-Volume Change	ISO 1817



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598	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Durometer Hardness Shore A	ASTM D2240
599	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Durometer Hardness Shore A	IS 3400 (Part 23/Sec1)
600	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Hardness Shore A	ISO 7619-1
601	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Resistance to Ozone Cracking - Static Strain Test	IS 3400 (Part 20)
602	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Tear Strength	IS 3400 (Part 17)
603	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Tensile Stress-Strain Properties- Elongation at Break	IS 3400 (Part 1)
604	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Rubber Product Test Slab/Button	Tensile Stress-Strain Properties- Elongation at Break	ISO 37
605	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Thermoplastic, elastomeric insulation & sheath	Tensile properties of rubber-Elongation at break	IS 10810 (Part 7)
606	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Thermoplastic, elastomeric insulation & sheath	Tensile properties of rubber-Tensile strength	IS 10810 (Part 7)



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

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Validity

15/04/2024 to 14/04/2026

Last Amended on

11/07/2024

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
Site Testing				
1	CHEMICAL- METALS & ALLOYS	Cobalt Alloys	Chromium	WI/PMI/01, Issue No 04 Dec 05
2	CHEMICAL- METALS & ALLOYS	Cobalt Alloys	Cobalt	WI/PMI/01, Issue No 04 Dec 05
3	CHEMICAL- METALS & ALLOYS	Cobalt Alloys	Iron	WI/PMI/01, Issue No 04 Dec 05
4	CHEMICAL- METALS & ALLOYS	Cobalt Alloys	Molybdenum	WI/PMI/01, Issue No 04 Dec 05
5	CHEMICAL- METALS & ALLOYS	Cobalt Alloys	Tungsten	WI/PMI/01, Issue No 04 Dec 05
6	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Chromium	WI/PMI/01, Issue No 04 Dec 05
7	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Manganese	WI/PMI/01, Issue No 04 Dec 05
8	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Molybdenum	WI/PMI/01, Issue No 04 Dec 05
9	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Nickel	WI/PMI/01, Issue No 04 Dec 05
10	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Niobium	WI/PMI/01, Issue No 04 Dec 05
11	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Titanium	WI/PMI/01, Issue No 04 Dec 05
12	CHEMICAL- METALS & ALLOYS	Iron & its Alloys	Vanadium	WI/PMI/01, Issue No 04 Dec 05
13	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Iron	WI/PMI/01, Issue No 04 Dec 05
14	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Molybdenum	WI/PMI/01, Issue No 04 Dec 05
15	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Vanadium	WI/PMI/01, Issue No 04 Dec 05