National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : UNITECH METALLURGICAL SERVICES, BLOCK C-120, TULSI ESTATE PLAZA, CHANGODAR, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- CORROSION TESTS	Anodized Products / Panels / Raw Materials	Salt Spray	IS 9844
2	CHEMICAL- CORROSION TESTS	Anodized Products / Panels / Raw Materials	Salt Spray	ISO 9227
3	CHEMICAL- CORROSION TESTS	Anodized Products / Panels / Raw Materials	Salts Spray Test	ASTM B 117
4	CHEMICAL- CORROSION TESTS	Non Ferrous Materials	Determination of Dezincification	BS EN ISO 6509-1
5	CHEMICAL- METALS & ALLOYS	carbon steel	Silicon	JIS G 1253
6	CHEMICAL- METALS & ALLOYS	Copper base Alloys Brass/Bronze	Aluminum	BS EN 15079
7	CHEMICAL- METALS & ALLOYS	Copper base Alloys Brass/Bronze	Antimony	BS EN 15079
8	CHEMICAL- METALS & ALLOYS	Copper base Alloys Brass/Bronze	Bismuth	BS EN 15079
9	CHEMICAL- METALS & ALLOYS	Copper base Alloys Brass/Bronze	Iron	BS EN 15079
10	CHEMICAL- METALS & ALLOYS	Copper base Alloys Brass/Bronze	Lead	BS EN 15079
11	CHEMICAL- METALS & ALLOYS	Copper base Alloys Brass/Bronze	Manganese	BS EN 15079
12	CHEMICAL- METALS & ALLOYS	Copper base Alloys Brass/Bronze	Nickel	BS EN 15079
13	CHEMICAL- METALS & ALLOYS	Copper base Alloys Brass/Bronze	Phosphorous	BS EN 15079
14	CHEMICAL- METALS & ALLOYS	Copper base Alloys Brass/Bronze	Silicon	BS EN 15079
15	CHEMICAL- METALS & ALLOYS	Copper base Alloys Brass/Bronze	Sulphur	BS EN 15079
16	CHEMICAL- METALS & ALLOYS	Copper base Alloys Brass/Bronze	Tin	BS EN 15079
17	CHEMICAL- METALS & ALLOYS	Copper base Alloys Brass/Bronze	Zinc	BS EN 15079
18	CHEMICAL- METALS & ALLOYS	Ferrous Materials	Antimony	ASTM E 415

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19	CHEMICAL- METALS & ALLOYS	Ferrous Materials	Arsenic	ASTM E 415
20	CHEMICAL- METALS & ALLOYS	Ferrous Materials	Arsenic	IS 8811
21	CHEMICAL- METALS & ALLOYS	Ferrous Materials	Cobalt	ASTM E 415
22	CHEMICAL- METALS & ALLOYS	Ferrous Materials	Cobalt	IS 8811
23	CHEMICAL- METALS & ALLOYS	Ferrous Materials	Tin	ASTM E 415
24	CHEMICAL- METALS & ALLOYS	Ferrous Materials	Tin	IS 8811
25	CHEMICAL- METALS & ALLOYS	Ferrous Materials	Zirconium	ASTM E 415
26	CHEMICAL- METALS & ALLOYS	Ferrous Materials	Zirconium	IS 8811
27	CHEMICAL- METALS & ALLOYS	Ferrous Materials	Boron	ASTM E 415
28	CHEMICAL- METALS & ALLOYS	Ferrous Materials	Boron	IS 8811
29	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Columbium (Neobium)	ASTM E 3047
30	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Aluminum	ASTM E 3047
31	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Carbon	ASTM E 3047
32	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Chromium	ASTM E 3047
33	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Cobalt	ASTM E 3047
34	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Copper	ASTM E 3047
35	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Iron	ASTM E 3047
36	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Manganese	ASTM E 3047
37	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Molybdenum	ASTM E 3047

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38	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Titanium	ASTM E 3047
39	CHEMICAL- METALS & ALLOYS	Nickel base alloys	Vanadium	ASTM E 3047
40	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Aluminum	ASTM E 415
41	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Aluminum	IS 8811
42	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	carbon	ASTM E 415
43	CHEMICAL- METALS & ALLOYS	plain carbon and Low alloy steel	carbon	IS 8811
44	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Chromium	ASTM E 415
45	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Chromium	IS 8811
46	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Columbium (Neobium)	ASTM E 415
47	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Columbium (Neobium)	IS 8811
48	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Copper	ASTM E 415
49	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Copper	IS 8811
50	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Manganese	ASTM E 415
51	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Manganese	IS 8811
52	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Molybdenum	ASTM E 415
53	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Molybdenum	IS 8811
54	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Nickel	ASTM E 415
55	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Nickel	IS 8811
56	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Nitrogen	ASTM E 415

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57	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Phosphorous	ASTM E 415
58	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Phosphorous	IS 8811
59	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Silicon	ASTM E 415
60	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	silicon	IS 8811
61	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Sulphur	ASTM E 415
62	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Sulphur	IS 8811
63	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Titanium	ASTM E 415
64	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Vanadium	ASTM E 415
65	CHEMICAL- METALS & ALLOYS	plain carbon and low alloy steel	Vanadium	IS 8811
66	CHEMICAL- METALS & ALLOYS	Plain carbon steel	Aluminium	JIS G 1253
67	CHEMICAL- METALS & ALLOYS	Plain carbon steel	Carbon	JIS G 1253
68	CHEMICAL- METALS & ALLOYS	Plain carbon steel	Chromium	JIS G 1253
69	CHEMICAL- METALS & ALLOYS	Plain carbon steel	Columbium (Neobium)	JIS G 1253
70	CHEMICAL- METALS & ALLOYS	Plain carbon steel	Copper	JIS G 1253
71	CHEMICAL- METALS & ALLOYS	Plain carbon steel	Manganese	JIS G 1253
72	CHEMICAL- METALS & ALLOYS	Plain carbon steel	Molybdenum	JIS G 1253
73	CHEMICAL- METALS & ALLOYS	Plain carbon steel	Nickel	JIS G 1253
74	CHEMICAL- METALS & ALLOYS	Plain carbon steel	Nitrogen	JIS G 1253
75	CHEMICAL- METALS & ALLOYS	Plain carbon steel	Phosphorus	JIS G 1253

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76	CHEMICAL- METALS & ALLOYS	Plain carbon steel	Sulphur	JIS G 1253
77	CHEMICAL- METALS & ALLOYS	Plain carbon steel	Titanium	JIS G 1253
78	CHEMICAL- METALS & ALLOYS	Plain carbon steel	Vanadium	JIS G 1253
79	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	ASTM E-1086
80	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	IS 9879
81	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	ASTM E-1086
82	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	IS 9879
83	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	ASTM E-1086
84	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	IS 9879
85	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	ASTM E-1086
86	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	IS 9879
87	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	ASTM E-1086
88	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS 9879
89	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorous	ASTM E-1086
90	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorous	IS 9879
91	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	ASTM E-1086
92	CHEMICAL- METALS & ALLOYS	Stainless steel	silicon	IS 9879
93	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	ASTM E-1086
94	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	IS 9879

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
95	CHEMICAL- METALS & ALLOYS	Stainless Steels	Carbon	ASTM E 1086
96	CHEMICAL- METALS & ALLOYS	Stainless Steels	Carbon	IS 9879
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Coated ferrous and non ferrous metallic material	Micro vickers Hardness (HV0.1)	ASTM E 384
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	coated ferrous and Non ferrous metallic material	Micro vickers Hardness (HV0.1)	IS 1501-1
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Coated Ferrous and non ferrous metallic material	Vickers Hardness Test (HV10)	ASTM E 92
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Coated ferrous and non ferrous metallic material	Vickers Hardness Test (HV10)	ISO 6507-1
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous welded metallic material	Vickers Hardness Test (HV10)	ISO 6507-1
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous matels	Flarring / Drift Expansion	IS 2335
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material	Charpy impact test (+35 Degree C to -196 Degree C)	ASTM E 23
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material	Charpy impact test(+35 Degree C to -196 Degree C)	ASTM A 370
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ferrous material	Flanging test	EN ISO 8494
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ferrous material	Flarring/Drift Expansion	ASTM A 370
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ferrous material	Flattening Test	IS 2328
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material	Flattening Test	ISO 8492

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109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Mass Per Meter	IS 1786
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Bend Test	ISO 5173
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Reduction in area	ASTM A 770
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ferrous metallic material	% Elongation	BS EN 10002-1
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metallic Material	0.2 % Proof stress	BS EN 10002-1
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metallic material	Hydrogen-induced cracking Test	NACE TM0284
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ferrous metallic material	Micro Vickers Hardness (HV0.1)	ASTM E 384
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ferrous metallic material	Micro Vickers Hardness (HV0.1)	IS 1501-1
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metallic material	Reduction in area	BS EN 10002-1
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ferrous metallic material	Rockwell hardness B scale	ISO 6508-1
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metallic material	Tensile test-UTS	BS EN 10002-1
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metallic material	Vickers Hardness Test (HV10)	ASTM E 92
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metallic material	Vickers Hardness Test (HV10)	ISO 6507-1
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metallic material	Yield strength	BS EN 10002-1

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123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	% Elongation	ASTM A 370
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	% Elongation	ASTM E8/ E8M
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	% Elongation	IS 1608 Part 1
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	% Elongation	ISO 6892-1
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	% Elongation	JIS Z 2241
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	0.2 % proof stress	ASTM A 370
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	0.2 % proof stress	IS 1608
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Bend	ASTM A 370
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Bend	ASTM E 290
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Bend	IS 1599
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Charpy Impact Test (+35 Degree C to -196 Degree C)	EN 10045
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Charpy Impact Test (+35 Degree C to -196 Degree C)	ISO 148-1
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Charpy Impact Test (+35 Degree C to -196 Degree C)	JIS Z 2242
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Flarring / Drift Expansion	BS EN ISO 8493

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137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Proof Stress	JIS Z 2241
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Proof stress	ASTM E8/ E8M
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Proof stress	ISO 6892-1
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Reduction in Area	ASTM A 370
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Reduction in Area	ASTM E8/ E8M
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Reduction in Area	IS 1608 Part 1
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Reduction in Area	ISO 6892-1
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Reduction in area	JIS Z 2241
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Reduction in area	SA 770
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Tensile test - UTS	ASTM A 370
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Tensile test - UTS	ASTM E8/E8M
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Tensile Test - UTS	JIS Z 2241
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ferrous metals	Tensile Test-UTS	IS 1608 part 1
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Tensile test-UTS	ISO 6892-1

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151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Yield Strength	ASTM A 370
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Yield Strength	ASTM E8/ E8M
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Yield Strength	IS 1608 Part 1
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Yield strength	ISO 6892-1
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals	Yield Strength	JIS Z 2241
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous products	Rockwell Hardness "C" scale	ASTM A 370
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous products	Rockwell Hardness "C" scale	ASTM E 18
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous products	Rockwell Hardness "C" scale	IS 1586
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous products	Rockwell Hardness "C" scale	ISO 6508-1
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous products	Rockwell hardness B scale	ASTM A 370
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous products	Rockwell hardness B scale	ASTM E 18
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous products	Rockwell hardness B scale	IS 1586
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous tubes and pipes products	Flattening	ASTM A 370
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Bend Test	ISO 7438

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165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	COATING ADHESION TEST	IS 15961
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Microstructure Of Graphite In Cast Iron	IS 7754
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	metallic materials	Tensile Test	ISO 4136
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous metallic material	% Elongation	BS EN 10002-1
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous metallic material	0.2 % Proof stress	BS EN 10002-1
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous metallic material	Micro Vickers Hardness (HV0.1)	IS 1501-1
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous metallic material	Micro Vicker's Hardness (HV0.1)	ASTM E 384
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous metallic material	Reduction in Area	BS EN 10002-1
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous metallic material	Tensile test -UTS	BS EN 10002-1
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous metallic material	Vickers Hardness Test (HV10)	ASTM E 92
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous metallic material	Vickers Hardness Test (HV10)	ISO 6507-1
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous metallic material	Yield strength	BS EN 10002-1
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous tubes and pipes products	Flattening	ASTM B 968
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous tubes and pipes products	Flattening	IS 2328

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179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	% Elongation	ASTM B 557
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	% Elongation	ASTM E8/E8M
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	% Elongation	IS 1608 Part 1
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	% Elongation	ISO 6892-1
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	% Elongation	JIS Z 2241
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	0.2 % Proof stress	ASTM E8/ E8M
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	0.2 % Proof stress	IS 1608 Part 1
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	0.2 % Proof Stress	JIS Z 2241
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	0.2% Proof Stress	ISO 6892-1
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Bend	ASTM E 290
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Bend	IS 1599
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Charpy Impact Test (+35 Degree C to -196 Degree C)	EN 10045
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Charpy Impact Test (+35 Degree C to -196 Degree C)	ISO 148-1
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Charpy Impact Test (+35 Degree C to -196 Degree C)	JIS Z 2242

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193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Flarring / Drift Expansion	BS EN ISO 8493
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Flarring / Drift Expansion	IS 2335
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Proof Stress	ASTM B 557
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Reduction in area	ASTM B 557
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Reduction in Area	ASTM E8/ E8M
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Reduction in Area	IS 1608 Part 1
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Reduction in area	ISO 6892-1
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Reduction in area	JIS Z 2241
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Tensile Test - UTS	ASTM B 557
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Tensile Test - UTS	JIS Z 2241
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Tensile Test-UTS	ASTM E8/ E8M
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Tensile Test-UTS	IS 1608 Part 1
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Tensile Test-UTS	ISO 6892-1
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Yield Strength	ASTM B 557

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207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Yield Strength	ASTM E8/ E8M
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Yield Strength	IS 1608 Part 1
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Yield Strength	ISO 6892-1
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous metals	Yield Strength	JIS Z 2241
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous product	Rockwell Hardness "C" scale	IS 1586
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous products	Rockwell Hardness "C" scale	ASTM E 18
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous products	Rockwell hardness B scale	ASTM E 18
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nonferrous products	Rockwell hardness B scale	IS 1586
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bar / Reinforcement Bar	Rebend Test of TMT Bar / Reinforcement Bar	IS 1786
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded ferrous & nonferrous matels	Flarring / Drift Expansion	IS 2335
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded ferrous and non ferrous material	Micro vickers Hardness (HV0.1)	ASTM E 384
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded ferrous and non ferrous material.	Micro vickers Hardness (HV0.1)	IS 1501-1
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded ferrous and non ferrous metallic material	Vickers Hardness Test (HV10)	ASTM E 92
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded ferrous and nonferrous metals	Bend Test	AWS D1.1

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221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded ferrous and nonferrous metals	Charpy Impact Test (+35 Degree C to -196 Degree C	ISO 148-1
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded ferrous and nonferrous metals	Charpy Impact Test (+35 Degree C to -196 Degree C	JIS z 2242
223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded ferrous and nonferrous metals	Tensile Test	AWS D1.1
224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welding Pipeline	% Elongation	API 1104
225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welding Pipeline	Bend Test	API 1104
226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welding Pipeline	Nick Break Test	API 1104
227	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welding Pipeline	Reduction in Area	API 1104
228	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welding pipeline facility	Tensile Test-UTS	API 1104
229	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welding Pipelines	Macro structure Examination	API 1104
230	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimen	Bend	ASME BVPC section IX
231	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimen	Bend	ASTM E 190
232	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimen	Tensile UTS	ASME BVPC section IX
233	MECHANICAL-METALLOGRAPHY TEST	Austenitic SS	IGC Test A	ASTM A 262
234	MECHANICAL-METALLOGRAPHY TEST	Austenitic SS	IGC Test B	ASTM A 262

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235	MECHANICAL-METALLOGRAPHY TEST	Austenitic SS	IGC Test C	ASTM A 262
236	MECHANICAL-METALLOGRAPHY TEST	Austenitic SS	IGC Test E	ASTM A 262
237	MECHANICAL-METALLOGRAPHY TEST	Austenitic SS	IGC Test F	ASTM A 262
238	MECHANICAL-METALLOGRAPHY TEST	Austenitic, Ferritic and duplex SS	Corrosion Test of Duplex SS - method C of A 923	ASTM A 923
239	MECHANICAL-METALLOGRAPHY TEST	Austenitic, Ferritic and duplex SS	Pitting corrosion test	ASTM G 48 (Methods A&B)
240	MECHANICAL-METALLOGRAPHY TEST	Austenitic, Ferritic and duplex SS	Resistance to intergranular corrosion of SS	ISO 3651-1
241	MECHANICAL-METALLOGRAPHY TEST	Austenitic, Ferritic and duplex SS	Resistance to intergranular corrosion of SS	ISO 3651-2
242	MECHANICAL-METALLOGRAPHY TEST	Copper alloy	Mercurous Nitrate	ASTM B 154
243	MECHANICAL-METALLOGRAPHY TEST	Copper Alloys	Mercurous Nitrate Test	IS 2305
244	MECHANICAL-METALLOGRAPHY TEST	Ferritic SS	IGC Test W	ASTM A 763
245	MECHANICAL-METALLOGRAPHY TEST	Ferritic SS	IGC Test X	ASTM A 763
246	MECHANICAL-METALLOGRAPHY TEST	Ferritic SS	IGC TEST Y	ASTM A 763
247	MECHANICAL-METALLOGRAPHY TEST	Ferritic SS	IGC Test Z	ASTM A 763
248	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Nonferrous metallic material	Macro Etch	ASTM E 340
249	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Nonferrous metallic material	Metallographic Analysis	ASM Handbook Vol 9
250	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Coating Thickness	ASTM B 499
251	MECHANICAL-METALLOGRAPHY TEST	Ferrous material	Volume fraction	ASTM E 1245
252	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials	Adhesion Pull off strength	ASTM D 4541 (Method E)
253	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Coating Thickness	IS 12860

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254	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Coating Thickness (Magnetic Method)	IS 3203
255	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Grain Size	IS 4748
256	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Inclusion Rating	JIS G 0555
257	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Mass of Zinc	ASTM A 90
258	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Mass of Zinc	IS 15961
259	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Mass Of Zinc	IS 6745
260	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Microstructure of ferritic/austenitic (duplex) stainless steels	ISO 17781
261	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Stress Corrosion Cracking Resistance (MgCl2 and CaCl2)	ASTM G 36
262	MECHANICAL-METALLOGRAPHY TEST	Ferrous metallic material	% Nodularity In SG Iron, Nodule count,Nodules size & Type, flakes type and size	IS 7754
263	MECHANICAL-METALLOGRAPHY TEST	Ferrous metallic material	%Nodularity in SG Iron, Nodules counts, nodules size and type, flakes type and size	ASTM E 2567
264	MECHANICAL-METALLOGRAPHY TEST	Ferrous metallic material	Decarburization Depth (by microscopic)	ASTM E 1077
265	MECHANICAL-METALLOGRAPHY TEST	Ferrous metallic material	Decarburization Depth (by microscopic)	IS 6396
266	MECHANICAL-METALLOGRAPHY TEST	Ferrous metallic material	Grain Size Measurement (Comparison method)	ASTM E 112
267	MECHANICAL-METALLOGRAPHY TEST	Ferrous metallic material	Inclusion Rating	ASTM E 45
268	MECHANICAL-METALLOGRAPHY TEST	Ferrous metallic material	Inclusion Rating	IS 4163
269	MECHANICAL-METALLOGRAPHY TEST	Ferrous metallic material	Inclusion Rating	ISO 4967
270	MECHANICAL-METALLOGRAPHY TEST	Ferrous metallic material	Macro Etch	ASTM E 381
271	MECHANICAL-METALLOGRAPHY TEST	Ferrous metallic material	Thickness of coating (by microscopic)	ASTM B 487

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272	MECHANICAL-METALLOGRAPHY TEST	Ferrous metallic material	Volume Fraction	ASTM E 562
273	MECHANICAL-METALLOGRAPHY TEST	Ferrous stainless steel and duplex material	Micro structure Examination	ASTM A 923-method A
274	MECHANICAL-METALLOGRAPHY TEST	Hardened metallic material	Case Depth (by microscopic)	IS 6416
275	MECHANICAL-METALLOGRAPHY TEST	Nonferrous metallic material	Grain Size Measurement (Comparison method)	ASTM E 112
276	MECHANICAL-METALLOGRAPHY TEST	Welded ferrous and nonferrous metals	Macrostructure	AWS D1.1
277	MECHANICAL-METALLOGRAPHY TEST	Welded material-Tube to tube plate joint	Macro Structure Examination	ISO 17639
278	MECHANICAL-METALLOGRAPHY TEST	Wrought, Nickel-Rich, Chromuim Bearing Alloys	Susceptibility to intergranular corrosion method A	ASTM G 28