National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ADVANCE METAL TESTING LABORATORY, 490/A-1, SHOP NO. 12,13, CHANDAN COMPLEX, GIDC ESTATE, MAKARPURA, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 26/07/2022 to 25/07/2024 **Last Amended on** -

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- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Aluminum	ASTM E 415
2	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Aluminum	IS 8811
3	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Boron	ASTM E 415
4	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Boron	IS 8811
5	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Carbon	ASTM E 415
6	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Carbon	IS 8811
7	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Chromium	ASTM E 415
8	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Chromium	IS 8811
9	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Cobalt	ASTM E 415
10	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Cobalt	IS 8811
11	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Copper	ASTM E 415
12	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Copper	IS 8811
13	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Manganese	ASTM E 415
14	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Manganese	IS 8811
15	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Molybdenum	ASTM E 415
16	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Molybdenum	IS 8811
17	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Nickel	ASTM E 415
18	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Nickel	IS 8811

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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
19	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Niobium	ASTM E 415
20	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Niobium	IS 8811
21	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Nitrogen	ASTM E 415
22	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Nitrogen	IS 8811
23	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Phosphorus	ASTM E 415
24	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Phosphorus	IS 8811
25	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Silicon	ASTM E 415
26	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Silicon	IS 8811
27	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Sulphur	ASTM E 415
28	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Sulphur	IS 8811
29	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Tin	ASTM E 415
30	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Tin	IS 8811
31	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Titanium	ASTM E 415
32	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Titanium	IS 8811
33	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Vanadium	ASTM E 415
34	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Vanadium	IS 8811
35	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Zirconium	ASTM E 415
36	CHEMICAL- METALS & ALLOYS	Carbon Steel (low, medium and high carbon) and Low Alloy Steel	Zirconium	IS 8811
37	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	ASTM E 1086

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38	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	IS 9879
39	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	ASTM E 1086
40	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	IS 9879
41	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	ASTM E 1086
42	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	IS 9879
43	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	ASTM E 1086
44	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	IS 9879
45	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	ASTM E 1086
46	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	IS 9879
47	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	ASTM E 1086
48	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS 9879
49	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	ASTM E 1086
50	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	IS 9879
51	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	ASTM E 1086
52	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	IS 9879
53	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	ASTM E 1086
54	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	IS 9879
55	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials, Alloys & Products	Brinell Hardness Test (2.5 mm ball dia./ 187.5 kgf load)	ASTM A 370

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56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials, Alloys & Products	Brinell Hardness Test (2.5 mm ball dia./ 187.5 kgf load)	ASTM E10
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials, Alloys & Products	Brinell Hardness Test (2.5 mm ball dia./187.5 kgf load)	IS 1500 PART 1
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials, Alloys & Products	Brinell Hardness Test (2.5 mm ball dia./187.5 kgf load)	ISO 6506-1
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HRB)	ASTM A 370
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HRB)	ASTM E18
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HRB)	IS 1586 PART 1
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HRB)	ISO 6508-1
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HRC)	ASTM A 370
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HRC)	ASTM E18
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HRC)	IS 1586 PART 1
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials, Alloys & Products	Rockwell Hardness Test (HRC)	ISO 6508-1
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metallic Material Weld Joints	Pull out test / Push out test - Tube to Tube Sheet Mock up	ASME SECTION VIII DIV. 1
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metallic Material Weld Joints	Shear test - Tube to Tube Sheet Mock up	ASME SECTION VIII DIV. 1
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flattening Test	API 5L

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70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Bend / Re-Bend Test	IS 1786
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Bend Test	ASTM A 262
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Bend Test	ASTM A 370
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Bend Test	ASTM E 290
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Bend Test	IS 1239 PART 1
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Bend Test	IS 1599
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Bend Test	SA 370
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Charpy V Notch Impact Test (+30 Deg. C to -196 Deg. C)	ASTM A 370
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Charpy V Notch Impact Test (+30 Deg. C to -196 Deg. C)	ASTM E 23
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Charpy V Notch Impact Test (+30 Deg. C to -196 Deg. C)	DIN EN ISO 9016
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Charpy V Notch Impact Test (+30 Deg. C to -196 Deg. C)	EN 10045-1
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Charpy V Notch Impact Test (+30 Deg. C to -196 Deg. C)	IS 1757 PART 1
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Charpy V Notch Impact Test (+30 Deg. C to -196 Deg. C)	IS 3600 PART 2
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Charpy V Notch Impact Test (+30 Deg. C to -196 Deg. C)	ISO 148-1

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84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Charpy V Notch Impact Test (+30 Deg. C to -196 Deg. C)	SA 370
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	API 1104
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	ASTM A 370
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	ASTM E8
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	AWS D 1.1
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	BS EN ISO 4136
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	BS EN ISO 5178
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	IBR REG
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	IS 1608 PART 1
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	IS 16172
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	IS 3600 PART 3
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	ISO 15614
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Elongation	SA 370
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flaring / Flange Test	ASTM A 1016

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98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flaring / Flange Test	ASTM A 370
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flaring / Flange Test	ASTM B 111
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flaring / Flange Test	BS EN ISO 8494
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flaring / Flange Test	EN ISO 8493
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flaring / Flange Test	IS 2335
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flaring / Flange Test	SA 370
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flattening Test	ASTM A 1016
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flattening Test	ASTM A 370
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flattening Test	ASTM A 450
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flattening Test	ASTM A 530
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flattening Test	ASTM A 999
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flattening Test	ASTM B 111
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flattening Test	BS EN ISO 8492
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flattening Test	IS 1239 PART 1

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112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flattening Test	IS 2328
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flattening Test	SA 370
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flattening Test	SA 450
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Flattening Test	SA 530
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Full Size Breaking / Tensile Test / Wedge Load / Proof Load - Studs & Bolts	ASTM A 193
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Full Size Breaking / Tensile Test / Wedge Load / Proof Load - Studs & Bolts	ASTM A 370
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Full Size Breaking / Tensile Test / Wedge Load / Proof Load - Studs & Bolts	IS 1367 PART 3
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Full Size Breaking / Tensile Test / Wedge Load / Proof Load - Studs & Bolts	ISO 898-1
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Full Size Breaking / Tensile Test / Wedge Load / Proof Load - Studs & Bolts	SA 193
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Full Size Breaking / Tensile Test / Wedge Load / Proof Load - Studs & Bolts	SA 370
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Proof Load Test	ASTM A 194
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Proof Load Test	ASTM A 370
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Proof Load Test	IS 1367 PART 6
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Proof Load Test	SA 194

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126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Proof Load Test	SA 370
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Re-Bend Test	IS 1786
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	API 1104
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	ASTM A 370
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	ASTM A 770
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	ASTM E8
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	AWS D 1.1
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	BS EN ISO 4136
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	BS EN ISO 5178
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	EN 10164
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	IBR REG
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	IS 1608 PART 1
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	IS 16172
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	IS 3600 PART 3

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140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	IS 3600 PART 4
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	IS 7307
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	ISO 15614 PART 1
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	ISO 6892 PART 1
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	ISO 7778
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Reduction Area	SA 370
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	API 1104
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	ASME SECTION IX
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	ASTM A 370
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	ASTM E8
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	AWS D 1.1
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	BS EN ISO 4136
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	BS EN ISO 5178
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	IBR REG

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154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	IS 1608 PART 1
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	IS 16172
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	IS 3600 PART 3
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	IS 3600 PART 4
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	IS 7307 PART 1
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	ISO 15614-1
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	ISO 6892 PART 1
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	SA 370
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Strength / Proof Stress	API 1104
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Strength / Proof Stress	ASTM A 370
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Strength / Proof Stress	ASTM E8
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Strength / Proof Stress	AWS D 1.1
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Strength / Proof Stress	BS EN ISO 4136
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Strength / Proof Stress	BS EN ISO 5178

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168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Strength / Proof Stress	IBR REG
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Strength / Proof Stress	IS 1608 PART 1
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Strength / Proof Stress	IS 16172
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Strength / Proof Stress	IS 3600 PART 3
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Strength / Proof Stress	ISO 15614
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Strength / Proof Stress	ISO 6892 PART 1
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Strength / Proof Stress	SA 370
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material Yield Strength / Proof Strength	Yield Strength / Proof Stress	ASME SECTION
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials, Alloys & Products	Elongation	ASTM B 557
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials, Alloys & Products	Reduction Area	ASTM B 557
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials, Alloys & Products	Ultimate Tensile Strength	ASTM B 557
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials, Alloys & Products	Yield Strength / Proof Stress	ASTM B 557
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test	API 1104
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test	ASME SECTION IX

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182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test	ASTM A 262
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test	ASTM E 190
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test	AWS D 1.1
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test	IBR REG.
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test	IS 3600 PART 5
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test	IS 3600 PART 6
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test	IS 7307 PART 1
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test	IS 7310 PART 1
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Bend Test	ISO 5173
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Fracture Test	ASME Section IX
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Fracture Test	AWS D 1.1
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Fracture Test	BS EN ISO 9017
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Fracture Test	EN 1320
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Fracture Test	IBR REG

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196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Fracture Test	IS 3600 PART 8
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Fracture Test	IS 7307 PART 1
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Fracture Test	IS 7310 PART 1
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Macro Test	ASME SECTION IX
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Macro Test	AWS D 1.1
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Macro Test	BS EN ISO 9017
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Macro Test	DIN EN 1321
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Macro Test	IBR REG
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Macro Test	IS 3600 PART 9
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Macro Test	IS 7307 PART 1
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Macro Test	IS 7310 PART 1
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Macro Test	ISO 17639
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Nick Break Test	API 1104
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Nick Break Test	AWS D 1.1

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210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Nick Break Test	DIN EN 1320
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Nick Break Test	IBR REG
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Nick Break Test	IS 2825
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Welded Test Specimens	Nick Break Test	IS 3600 PART 8
214	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Microstructure Examination Of Cast Iron	ASTM A 247
215	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Microstructure Examination Of Cast Iron	IS 7754
216	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Materials, Alloys & Products	Macro Examination	ASM HANDBOOK VOL. 9
217	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Materials, Alloys & Products	Macro Examination	ASTM E 340
218	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Materials, Alloys & Products	Macro Examination	ASTM E381
219	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Materials, Alloys & Products	Macro Examination	BS EN ISO 15614-1
220	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Materials, Alloys & Products	Macro Examination	BS EN ISO 17639
221	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Materials, Alloys & Products	Microstructure Examination	ASM HANDBOOL VOL.9
222	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Materials, Alloys & Products	Microstructure Examination	ASTM E1351
223	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Materials, Alloys & Products	Microstructure Examination	ASTM E1558
224	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Materials, Alloys & Products	Microstructure Examination	ASTM E3
225	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Materials, Alloys & Products	Microstructure Examination	ASTM E407
226	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Materials, Alloys & Products	Microstructure Examination	BS EN ISO 17639

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227	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Materials, Alloys & Products	Microstructure Examination	EN 1321
228	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Materials, Alloys & Products	Microstructure Examination	IS 7739 PART 1
229	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Materials, Alloys & Products	Microstructure Examination	IS 7739 PART 2
230	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Materials, Alloys & Products	Case Depth Measurements	IS 6416 Clause 8
231	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Materials, Alloys & Products	Decarburization Depth	ASTM E 1077 Clause 7.3
232	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Materials, Alloys & Products	Decarburization Depth	IS 1367 PART 3
233	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Materials, Alloys & Products	Decarburization Depth	IS 6396 Clause 9
234	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Grain Size Measurement	ASTM E 1382
235	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Grain Size Measurement	ASTM E112
236	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Grain Size Measurement	IS 4748
237	MECHANICAL-METALLOGRAPHY TEST	Metallic Material - Steel	Inclusion Rating (TYPE A & D)	ASTM E 45
238	MECHANICAL-METALLOGRAPHY TEST	Metallic Material - Steel	Inclusion Rating (TYPE A & D)	IS 4163
239	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	IGC Test	ISO 3651-2
240	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	IGC Practice A	ASTM A 262
241	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	IGC Practice B	ASTM A 262
242	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	IGC Practice C	ASTM A 262
243	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	IGC Practice E	ASTM A 262
244	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	IGC Test	IS 10461 PART 2