



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

MAHALAB TESTING & ANALYSIS (I) PRIVATE LIMITED, MSK HOUSE, PLOT NO. 51, 2ND FLOOR,  
PANVEL INDUSTRIAL ESTATE, PANVEL, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

TC-16414

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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- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Molybdenum	JIS G1253
2	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Carbon	IS 9879
3	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Carbon	JIS G1253
4	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Chromium	IS 9879
5	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Chromium	JIS G1253
6	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Copper	IS 9879
7	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Copper	JIS G1253
8	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Manganese	IS 9879
9	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Manganese	JIS G1253
10	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Molybdenum	IS 9879
11	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Nickel	IS 9879
12	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Nickel	JIS G1253
13	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Niobium	JIS G1253
14	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Nitrogen	JIS G1253
15	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Phosphorus	IS 9879
16	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Phosphorus	JIS G1253



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17	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Silicon	IS 9879
18	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Silicon	JIS G1253
19	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Sulfur	IS 9879
20	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Sulfur	JIS G1253
21	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Tin	JIS G1253
22	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Titanium	JIS G1253
23	CHEMICAL- METALS & ALLOYS	Austenitic and Ferritic Stainless Steels	Vanadium	JIS G1253
24	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steels	Carbon	ASTM E1086
25	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steels	Chromium	ASTM E1086
26	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steels	Copper	ASTM E1086
27	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steels	Manganese	ASTM E1086
28	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steels	Molybdenum	ASTM E1086
29	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steels	Nickel	ASTM E1086
30	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steels	Phosphorus	ASTM E1086
31	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steels	Silicon	ASTM E1086
32	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steels	Sulfur	ASTM E1086



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33	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Aluminum	ASTM E415
34	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Aluminum	IS 8811
35	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Aluminum	JIS G1253
36	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Boron	ASTM E415
37	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Boron	JIS G1253
38	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Carbon	ASTM E415
39	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Carbon	IS 8811
40	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Carbon	JIS G1253
41	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Chromium	ASTM E415
42	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Chromium	IS 8811
43	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Chromium	JIS G1253
44	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Cobalt	ASTM E415
45	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Cobalt	IS 8811
46	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Cobalt	JIS G1253
47	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Copper	ASTM E415
48	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Copper	IS 8811





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49	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Copper	JIS G1253
50	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Manganese	ASTM E415
51	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Manganese	IS 8811
52	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Manganese	JIS G1253
53	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Molybdenum	ASTM E415
54	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Molybdenum	IS 8811
55	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Molybdenum	JIS G1253
56	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Nickel	ASTM E415
57	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Nickel	IS 8811
58	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Nickel	JIS G1253
59	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Niobium	ASTM E415
60	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Niobium	IS 8811
61	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Niobium	JIS G1253
62	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Nitrogen	JIS G1253
63	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Phosphorus	ASTM E415
64	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Phosphorus	IS 8811



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65	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Phosphorus	JIS G1253
66	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Silicon	ASTM E415
67	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Silicon	IS 8811
68	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Silicon	JIS G1253
69	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Sulfur	ASTM E415
70	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Sulfur	IS 8811
71	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Sulfur	JIS G1253
72	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Titanium	ASTM E415
73	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Titanium	IS 8811
74	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Titanium	JIS G1253
75	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Vanadium	ASTM E415
76	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Vanadium	IS 8811
77	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steels	Vanadium	JIS G1253
78	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Aluminium	BS EN 15079
79	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Antimony	BS EN 15079
80	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Arsenic	BS EN 15079



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81	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Bismuth	BS EN 15079
82	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Chromium	BS EN 15079
83	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Cobalt	BS EN 15079
84	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Iron	BS EN 15079
85	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Lead	BS EN 15079
86	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Manganese	BS EN 15079
87	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Nickel	BS EN 15079
88	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Phosphorus	BS EN 15079
89	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Silicon	BS EN 15079
90	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Silver	BS EN 15079
91	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Sulfur	BS EN 15079
92	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Tin	BS EN 15079
93	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Zinc	BS EN 15079
94	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Aluminium	ASTM E3047
95	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Boron	ASTM E3047
96	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Carbon	ASTM E3047





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97	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Chromium	ASTM E3047
98	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Cobalt	ASTM E3047
99	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Copper	ASTM E3047
100	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Iron	ASTM E3047
101	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Magnesium	ASTM E3047
102	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Manganese	ASTM E3047
103	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Molybdenum	ASTM E3047
104	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Niobium	ASTM E3047
105	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Phosphorus	ASTM E3047
106	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Silicon	ASTM E3047
107	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Sulfur	ASTM E3047
108	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Titanium	ASTM E3047
109	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Tungsten	ASTM E3047
110	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Vanadium	ASTM E3047
111	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Coated Steel Strip and Sheet	Coating Adhesion Test	IS 15961



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112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Coating on Iron and Steel	Freedom From Defects	IS 15961
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Coating on Iron and Steel	Freedom From Defects	IS 2629
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloy Pipes and Tubes	Flattening Test	ASTM B968/B968M
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloy Pipes and Tubes	Flaring / Expansion Test	ASTM B153
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & Copper Alloy Pipes and Tubes	Flattening Test	IS 2501
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferritic Alloys, Austenitic Alloys and Stainless Steel Tubes	Flattening Test	ASTM A1016
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferritic Alloys, Austenitic Alloys and Stainless Steel Tubes	Flange Test	ASTM A1016
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferritic Alloys, Austenitic Alloys and Stainless Steel Tubes	Flaring Test	ASTM A1016
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferritic Alloys, Austenitic Alloys and Stainless Steel Tubes	Reverse Bend Test	ASTM A1016





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121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferritic Alloys, Austenitic Alloys and Stainless Steel Tubes	Reverse Flattening	ASTM A1016
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bar and Wires	Mass Per Meter	IS 1786
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bar and Wires	Re-Bend Test	IS 1786
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	ASTM E290
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	IS 1599
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	ISO 7438
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	IBR Rule
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction in Area	IBR Rule
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	IBR Rule



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130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test (2.5mm, 187.5Kg)	ISO 6506-1
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test (2.5mm, 187.5Kg)	IS 1500 (Part 1)
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy V-Notch Impact Test (-196°C, -101°C to 50°C)	IS 1757 (Part 1)
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy V-Notch Impact Test (-196°C, -101°C to 50°C)	ISO 148-1
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy V-Notch Impact Test (20°C to 50°C)	IBR Rule
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test (B Scale)	ASTM E18
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test (B Scale)	IS 1586 (Part 1)
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test (B Scale)	ISO 6508-1
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test (C Scale)	ASTM E18



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139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test (C Scale)	IS 1586 (Part 1)
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test (C Scale)	ISO 6508-1
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (HV10)	ISO 6507-1
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (HV10)	ASTM E92
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (HV10)	IS 1501 (Part 1)
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (HV30)	ASTM E92
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (HV30)	IS 1501 (Part 1)
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (HV30)	ISO 6507-1
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (HV5)	ASTM E92





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148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (HV5)	IS 1501 (Part 1)
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (HV5)	ISO 6507-1
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	% Elongation	ASTM E8/E8M
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	IS 1608 (Part 1)
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	ISO 6892-1
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction in Area	ASTM E8/E8M
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction in Area	IS 1608 (Part 1)
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction in Area	ISO 6892-1
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test (2.5 mm 187.5 Kg)	ASTM E10



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157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy V-Notch Impact Test (-196°C, -101°C to 50°C)	ASTM E23
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	ASTM E8/E8M
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	IBR Rule
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	IS 1608 (Part 1)
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	ISO 6892-1
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength	IBR Rule
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength	IS 1608 (Part 1)
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength	ISO 6892-1
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength (0.2 % Offset / Proof Strength)	ASTM E8/E8M



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166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength (0.2 % Offset / Proof Strength)	ASTM E8/E8M
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength (0.2 % Offset / Proof Strength)	IS 1608 (Part 1)
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength (0.2 % Offset / Proof Strength)	IS 1608 (Part 1)
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength (0.2 % Offset / Proof Strength)	ISO 6892-1
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength (0.2 % Offset / Proof Strength)	ISO 6892-1
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength (0.2 % Offset / Proof Strength)	IBR Rule
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Tubes	Bend Test	IS 2329
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Tubes	Flaring / Drift Test	IS 2335
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Tubes	Flattening Test	IS 2328





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175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Tubes / Pipes	Bend Test	ASTM A370
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel and Nickel-Base Alloy-Clad Steel Plate	Shear Strength Test	ASME SA 265
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Seamless & Welded Steel Pipe	Bend Test	API 5L
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Seamless & Welded Steel Pipe	Flattening Test	API 5L
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Chromium Steel-Clad Plate	Shear Strength Test	ASME SA 263
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Chromium-Nickel Steel-Clad Plate	Shear Strength Test	ASME SA 264
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Fasteners (Nuts)	Proof Load	ASTM A370
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Fasteners (Nuts)	Proof Load	IS 1367 (Part 6)
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Fasteners (Nuts)	Proof Load	ISO 898-2



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184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Plates	% Reduction in Area (Through Thickness Tensile Test)	API 2H
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Plates	% Reduction in Area (Through Thickness Tensile Test)	ASTM A770
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Plates	% Reduction in Area (Through Thickness Tensile Test)	BS EN 10164
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Bend Test	ASTM A370
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Charpy V-Notch Impact Test (-196°C, -101°C to 50°C)	ASTM A370
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	% Elongation	ASTM A370
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	% Reduction in Area	ASTM A370
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Ultimate Tensile Strength	ASTM A370
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Yield Strength	ASTM A370



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193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Yield Strength (0.2% Offset / Proof Strength)	ASTM A370
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Yield Strength (1% Offset / Proof Strength)	ASTM A370
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products (Tube & Pipes)	Flattening Test	ASTM A370
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products (Tubes)	Flaring Test	ASTM A370
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Bend Test	ASTM E190
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Bend Test (Root, Face & Side)	AWS D1.1/D1.1M
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Bend Test (Root, Face & Side)	IBR Rule
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Bend Test (Root, Face & Side)	IS 2825
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Bend Test (Root, Face & Side)	ISO 5173





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202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Fracture Test	IS 2825
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Fracture Test	ISO 9017
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Nick Break Test	IBR Rule
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Nick Break Test	IS 2825
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Ultimate Tensile Strength	AWS D1.1/D1.1M
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Bend Test (Root, Face & Side)	ASME Section IX
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Bend Test (Root, Face & Side)	BS EN ISO 15614-1
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Charpy V-Notch Impact Test (-196°C, -101°C to 50°C)	ASME Section VIII (Division 1)
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Charpy V-Notch Impact Test (-196°C, -101°C to 50°C)	ASME Section VIII (Division 2)



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211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Charpy V-Notch Impact Test (-196°C, -101°C to 50°C)	ISO 9016
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Charpy V-Notch Impact Test (20°C to 50°C)	IBR Rule
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Fracture Test	IS 3600 (Part 8)
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Nick Break Test	IS 3600 (Part 8)
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Ultimate Tensile Strength	ASME Section IX
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Ultimate Tensile Strength	IBR Rule
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Vickers Hardness Test (HV10)	BS EN ISO 15614-1
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Vickers Hardness Test (HV10)	ISO 9015-1
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Vickers Hardness Test (HV5)	ISO 9015-1



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220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Charpy V-Notch Impact Test (-196°C, -101°C to 50°C)	AWS D1.1/D1.1M
221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Charpy V-Notch Impact Test (-196°C, -101°C to 50°C)	BS EN ISO 15614-1
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Charpy V-Notch Impact Test (-196°C, -101°C to 50°C)	IS 2825
223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Fillet Weld Break Test	AWS D1.1/D1.1M
224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Ultimate Tensile Strength	AWS B4.0
225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal	Ultimate Tensile Strength (Transverse Tensile Test)	IS 2825 (Clause No. 8.5.7)
226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal (All Weld Material)	% Elongation	ASME Section IIC (SFA 5.1/5.1M)
227	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal (All Weld Material)	% Elongation	ISO 5178
228	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal (All Weld Material)	% Reduction in Area	ASME Section IIC (SFA 5.1/5.1M)





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229	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal (All Weld Material)	% Reduction in Area	ISO 5178
230	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal (All Weld Material)	Ultimate Tensile Strength	ASME Section IIC (SFA 5.1/5.1M)
231	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal (All Weld Material)	Ultimate Tensile Strength	ISO 5178
232	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metal (All Weld Material)	Yield Strength (0.2% Offset / Proof Strength)	ASME Section IIC (SFA 5.1/5.1M)
233	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Carbon and Low-Alloy Steel Piping	Nick Break Test	API 1104
234	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Carbon and Low-Alloy Steel Piping	Ultimate Tensile Strength	API 1104
235	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds in Metallic Materials	Ultimate Tensile Strength (Transverse Tensile Test)	ISO 4136
236	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Zinc Coated Iron and Steel	Adhesion Test (Knife Test)	IS 2629
237	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Zinc Coated Iron and Steel	Adhesion Test (Pivoted Hammer Test)	IS 2629



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238	MECHANICAL-METALLOGRAPHY TEST	Austenitic and Ferritic Austenitic (Duplex) Stainless Steels	Intergranular Corrosion (Huey Test)	ISO 3651-1
239	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	Intergranular Corrosion (Practice A)	ASTM A262
240	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	Intergranular Corrosion (Practice B)	ASTM A262
241	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	Intergranular Corrosion (Practice C)	ASTM A262
242	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	Intergranular Corrosion (Practice E)	ASTM A262
243	MECHANICAL-METALLOGRAPHY TEST	Case Hardened Steels	Case Depth	IS 6416 (by Microscope Method)
244	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Graphite Distribution	ASTM A247
245	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Graphite Distribution	IS 7754 (Part 1)
246	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Graphite Distribution	ISO 945-1
247	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Graphite Form	ASTM A247
248	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Graphite Form	IS 7754 (Part 1)
249	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Graphite Form	ISO 945-1



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250	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Graphite Size	ASTM A247
251	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Graphite Size	IS 7754 (Part 1)
252	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Graphite Size	ISO 945-1
253	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Nodularity	ASTM A247
254	MECHANICAL-METALLOGRAPHY TEST	Coating in Metal	Thickness of Coating	ASTM B487 (by Microscope Method)
255	MECHANICAL-METALLOGRAPHY TEST	Coating in Metal	Thickness of Coating	ISO 1463 (by Microscope Method)
256	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/Ferritic Stainless Steels	Detrimental Intermetallic Phases	ASTM A923 (by Method C)
257	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/Ferritic Stainless Steels	Detrimental Intermetallic Phases (Charpy Impact Test)	ASTM A923 (by Method B)
258	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/Ferritic Stainless Steels	Detrimental Intermetallic Phases	ASTM A923 (by Method A)
259	MECHANICAL-METALLOGRAPHY TEST	Ferritic, Austenitic and Ferritic Austenitic (Duplex) Stainless Steel	Intergranular Corrosion	ISO 3651-2 (by Method A)
260	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Grain Size	ASTM E112 (by Comparison Method)
261	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Micro Structure Examination	ASM Handbook Volume 9





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262	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Volume Fraction - Systematic Manual Point Count/Ferrite	ASTM E562 (by Metallography Method)
263	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	Macro Etch Test	ASTM E340
264	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Ferric Chloride Crevice Test	ASTM G48 (by Method B)
265	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Ferric Chloride Pitting Test	ASTM G48 (by Method A)
266	MECHANICAL-METALLOGRAPHY TEST	Steel Bars, Billets, Blooms, and Forgings	Macro Etch Test	ASTM E381
267	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Decarburization	ASTM E1077
268	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Decarburization	IS 6396
269	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Grain Size	IS 4748 (by Comparison Method)
270	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Grain Size	ISO 643 (by Microscopic Method)
271	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Inclusion Rating (Non Metallic Inclusions)	IS 4163 (by Method A & Method D)
272	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Inclusion Rating (Non-Metallic Inclusions Micrographic)	ASTM E45 (by Method A & Method D)
273	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Macro Examination	IS 11371



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274	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Microscopic Examination (of Non-Metallic Inclusions)	DIN 50602
275	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Macro Streak Flow Test	IS 4075
276	MECHANICAL-METALLOGRAPHY TEST	Weld in Metal	Macro Etch Test	AWS D1.1/D1.1M
277	MECHANICAL-METALLOGRAPHY TEST	Weld in Metal	Macro Etch Test	IBR Rule
278	MECHANICAL-METALLOGRAPHY TEST	Weld in Metal	Macro Etch Test	IS 2825
279	MECHANICAL-METALLOGRAPHY TEST	Weld in Metal	Macro Etch Test (Minimum Leak Path & Leg Length)	ASME Section IX
280	MECHANICAL-METALLOGRAPHY TEST	Weld in Metal	Macro Examination	BS EN ISO 15614-1
281	MECHANICAL-METALLOGRAPHY TEST	Weld in Metal	Macro Examination	EN ISO 17639
282	MECHANICAL-METALLOGRAPHY TEST	Weld in Metal	Micro Analysis	IBR Rule
283	MECHANICAL-METALLOGRAPHY TEST	Weld in Metal	Micro Examination	EN ISO 17639
284	MECHANICAL-METALLOGRAPHY TEST	Wrought, Nickel-Rich, Chromium-Bearing Alloys	Intergranular Corrosion	ASTM G28 (by Method A)
285	MECHANICAL-METALLOGRAPHY TEST	Wrought, Nickel-Rich, Chromium-Bearing Alloys	Intergranular Corrosion	ASTM G28 (by Method B)