National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : URJA METALLURGICAL SERVICES, GODOWN NO. 1, TULSI ESTATE & PLAZA, CHANGODAR, TALUKA SANAND, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 14/01/2022 to 13/01/2024 **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	Aluminium & its alloys	Chromium	ASTM E1251
2	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E1251
3	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E1251
4	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E1251
5	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E1251
7	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Vanadium	ASTM E1251
12	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E1251
13	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E1999
14	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E1999
15	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E1999
16	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E1999
17	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E1999
18	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E1999

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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	Cast Iron	Phosphorus	ASTM E1999
20	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999
21	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1999
22	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	ASTM E1999
23	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	ASTM E1999
24	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	ASTM E1999
25	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminum	BS EN 15079
26	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	BS EN 15079
27	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Arsenic	BS EN 15079
28	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Bismuth	BS EN 15079
29	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cobalt	BS EN 15079
30	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	BS EN 15079
31	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	BS EN 15079
32	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	BS EN 15079
33	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	BS EN 15079
34	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	BS EN 15079
35	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	BS EN 15079
36	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Sulphur	BS EN 15079
37	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	BS EN 15079

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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
38	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	BS EN 15079
39	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminum	IS 8811
40	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	IS 8811
41	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt	IS 8811
42	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	IS 8811
43	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Lead	IS 8811
44	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	IS 8811
45	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	IS 8811
46	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Niobium	IS 8811
47	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	IS 8811
48	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	IS 8811
49	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Titanium	IS 8811
50	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	IS 8811
51	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminum	ASTM E415
52	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Boron	ASTM E415
53	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Boron	IS 8811
54	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	ASTM E415
55	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	IS 8811
56	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	ASTM E415

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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
57	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt	ASTM E415
58	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	ASTM E415
59	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Lead	ASTM E415
60	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	ASTM E415
61	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	ASTM E415
62	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	ASTM E415
63	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	IS 8811
64	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Niobium	ASTM E415
65	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nitrogen	ASTM E415
66	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nitrogen	IS 8811
67	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	ASTM E415
68	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	ASTM E415
69	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	ASTM E415
70	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	IS 8811
71	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tin	ASTM E415
72	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tin	IS 8811
73	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Titanium	ASTM E415
74	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tungsten	IS 8811
75	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	ASTM E415

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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
76	CHEMICAL- METALS & ALLOYS	Stainless steel	Aluminum	IS 9879
77	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	ASTM E 1086
78	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	IS 9879
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	Cobalt	IS 9879
82	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	ASTM E 1086
83	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	IS 9879
84	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	ASTM E 1086
85	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	IS 9879
86	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	ASTM E 1086
87	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	IS 9879
88	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	ASTM E 1086
89	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS 9879
90	CHEMICAL- METALS & ALLOYS	Stainless steel	Niobium	IS 9879
91	CHEMICAL- METALS & ALLOYS	Stainless steel	Nitrogen	IS 9879
92	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	ASTM E 1086
93	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	IS 9879
94	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	ASTM E 1086

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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 steel	Silicon	IS 9879
96	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	ASTM E 1086
97	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	IS 9879
98	CHEMICAL- METALS & ALLOYS	Stainless steel	Titanium	IS 9879
99	CHEMICAL- METALS & ALLOYS	Stainless steel	Tungsten	IS 9879
100	CHEMICAL- METALS & ALLOYS	Stainless steel	Vanadium	IS 9879
101	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tin	IS 9879
102	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	JIS G 1253
103	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	JIS G 1253
104	CHEMICAL- METALS & ALLOYS	Tool Steel	Copper	JIS G 1253
105	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	JIS G 1253
106	CHEMICAL- METALS & ALLOYS	Tool Steel	Nickel	JIS G 1253
107	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	JIS G 1253
108	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	JIS G 1253
109	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	JIS G 1253
110	CHEMICAL- METALS & ALLOYS	Tool Steel	Aluminium	JIS G 1253
111	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	JIS G 1253
112	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	JIS G 1253
113	CHEMICAL- METALS & ALLOYS	Tool Steel	Nitrogen	JIS G 1253

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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
114	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	JIS G 1253
115	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	JIS G 1253
116	CHEMICAL- METALS & ALLOYS	Zinc & its alloys	Aluminum	AS 4699
117	CHEMICAL- METALS & ALLOYS	Zinc & its alloys	Cadmium	AS 4699
118	CHEMICAL- METALS & ALLOYS	Zinc & its alloys	Chromium	AS 4699
119	CHEMICAL- METALS & ALLOYS	Zinc & its alloys	Copper	AS 4699
120	CHEMICAL- METALS & ALLOYS	Zinc & its alloys	Iron	AS 4699
121	CHEMICAL- METALS & ALLOYS	Zinc & its alloys	Lead	AS 4699
122	CHEMICAL- METALS & ALLOYS	Zinc & its alloys	Magnesium	AS 4699
123	CHEMICAL- METALS & ALLOYS	Zinc & its alloys	Manganese	AS 4699
124	CHEMICAL- METALS & ALLOYS	Zinc & its alloys	Nickel	AS 4699
125	CHEMICAL- METALS & ALLOYS	Zinc & its alloys	Tin	AS 4699
126	CHEMICAL- METALS & ALLOYS	Zinc & its alloys	Titanium	AS 4699
127	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Alloy and Stainless Steel Pipe	Flattening Test	ASTM A999
128	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon and Alloy Steel Pipe	Flattening Test	ASTM A530/530M
129	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon and Low Alloy Steel Tubes	Flaring Test/ Drift Expansion	ASTM A450
130	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon and Low Alloy Steel- Tubes	Flattening Test	ASME Sec II Part A SA 450

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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
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon and Low Alloy Steel- Tubes	Flattening Test	ASTM A450
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloy Seamless Condenser Tubes and Ferrule Stock	Flattening Test	ASTM B111
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloy- Pipe and Tube	Flaring Test/ Drift Expansion	ASTM B153
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Duplex (Austenitic/Ferritic) Stainless Steel	Charpy Impact Test V-Notch (-40°C & -46°C)	ASTM A923 Method B
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferritic Alloy Steel, Austenitic Alloy Steel and Stainless Steel Tubes	Flaring Test/ Drift Expansion	ASTM A1016
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferritic Alloy Steel, Austenitic Alloy Steel and Stainless Steel Tubes	Flattening Test	ASTM A1016
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Gas and Arc Welding of Butt, Fillet and Socket Welds in Carbon and Low-Alloy Steel Piping	Nick Break Test	API 1104
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Gas and Arc Welding of Butt, Fillet and Socket Welds in Carbon and Low-Alloy Steel Piping	UTS	API 1104
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Weld and Welded Test Specimens	UTS	ASME Section IX
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Weld and Welded Test Specimens	UTS	AWS B4.0
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Weld and Welded Test Specimens	UTS	AWS D1.1/D1.1M
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Weld and Welded Test Specimens	UTS	IS 3600 (Part 4)
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Weld and Welded Test Specimens	UTS	ISO 15614-1
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Weld and Welded Test Specimens	UTS	ISO 4136

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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
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Weld and Welded Test Specimens	YS	ASME Sec II Part A SA 370
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Weld and Welded Test Specimens	YS	AWS B4.0
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Weld and Welded Test Specimens	YS	ISO 5178
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Welded and Welded Test Specimens	Bend Test	AWS D1.1/D1.1M
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Welded and Welded Test Specimens	% Elongation	ASME Sec II Part A SA 370
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Welded and Welded Test Specimens	1 % Proof Stress	ASME Sec II Part A SA 370
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Welded and Welded Test Specimens	Fracture Test	ASME Section IX
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Welded and Welded Test Specimens	Fracture Test	AWS B4.0
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Welded and Welded Test Specimens	Fracture Test	AWS D1.1/D1.1M
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Welded and Welded Test Specimens	Fracture Test	BS EN ISO 9017
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Welded and Welded Test Specimens	Fracture Test	BS EN ISO 9606-1
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Welded and Welded Test Specimens	Nick Break Test	ASME Section IX
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Welded and Welded Test Specimens	Nick Break Test	AWS B4.0
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Welded and Welded Test Specimens	Nick Break Test	AWS D1.1/D1.1M

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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
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Welded and Welded Test Specimens	Nick Break Test	IS 2825
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Welded and Welded Test Specimens	UTS	ASME Sec II Part A SA 370
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Welded and Welded Test Specimens	UTS	IS 3600 (Part 3)
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Welded and Welded Test Specimens	UTS	ISO 5178
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous - Welds and Welded Test Specimens	% Elongation	IS 3600 (Part 4)
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- Ferrous Metals, Alloys & Products	Flaring Test/ Drift Expansion	IBR Rule 2017
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- Ferrous Metals, Alloys & Products- Weld	% Reduction Area	AWS B4.0
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- Ferrous Metals, Alloys & Products- Weld	0.5 % Proof Stress	AWS B4.0
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- Ferrous Metals, Alloys & Products- Weld	1 % Proof Stress	AWS B4.0
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non- Ferrous Metals, Alloys & Products- Welds	% Elongation	AWS B4.0
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Product	Charpy Impact Test V-Notch (Room Temperature to -196 °C)	ISO 148-1
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Rockwell Hardness HR15TW	ASTM E18
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Rockwell Hardness HR15TW	ISO 6508 (Part 1)
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Rockwell Hardness HR15TW	IS 1586 (Part 1)

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173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Rockwell Hardness HR30TW	IS 1586 (Part 1)
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Rockwell Hardness HR30TW	ISO 6508 (Part 1)
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Rockwell Hardness HRA	ISO 6508 (Part 1)
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Rockwell Hardness HRBW	ISO 6508 (Part 1)
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Rockwell Hardness HRC	ASTM E18
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	% Elongation	JIS Z-2241
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	0.2 % Proof Stress	ASTM E8/E8M
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	0.2 % Proof Stress	BS EN ISO 6892-1
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	0.2 % Proof Stress	EN 10002-1 (Withdrawn Standard)
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	0.2 % Proof Stress	IS 1608 (Part 1)
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	0.2 % Proof Stress	JIS Z-2241
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	0.5 % Proof Stress	ASTM E8/E8M
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	0.5 % Proof Stress	BS EN ISO 6892-1
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	0.5 % Proof Stress	EN 10002-1 (Withdrawn Standard)

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187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	0.5 % Proof Stress	IS 1608 (Part 1)
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	0.5 % Proof Stress	JIS Z-2241
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	1 % Proof Stress	ASTM E8/E8M
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	1 % Proof Stress	BS EN ISO 6892-1
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	1 % Proof Stress	EN 10002-1 (Withdrawn Standard)
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	1 % Proof Stress	IS 1608 (Part 1)
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	1 % Proof Stress	JIS Z-2241
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Reduction in Area	JIS Z-2241
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Rockwell Hardness HR30TW	ASTM E18
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Rockwell Hardness HRA	ASTM E18
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Rockwell Hardness HRA	IS 1586 (Part 1)
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Rockwell Hardness HRBW	ASTM E18
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Rockwell Hardness HRBW	IS 1586 (Part 1)
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Rockwell Hardness HRC	IS 1586 (Part 1)

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201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	Rockwell Hardness HRC	ISO 6508 (Part 1)
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products	UTS	EN 10002-1 (Withdrawn Standard)
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products, Welded and Welded Products	0.2 % Proof Stress	ASTM A370
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products, Welded and Welded Products	0.5 % Proof Stress	ASTM A370
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products, Welded and Welded Products	1 % Proof Stress	ASTM A370
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products, Welds and Welded Products	Rockwell Hardness HR30TW	ASTM A370
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products, Welds and Welded Products	Rockwell Hardness HRBW	ASTM A370
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products, Welds and Welded Products	% Elongation	IS 1608 (Part 1)
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products, Welds and Welded Products	Crushing Test	ASTM A370
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products, Welds and Welded Products	Rockwell Hardness HR15TW	ASTM A370
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products, Welds and Welded Products	Rockwell Hardness HRA	ASTM A370
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Products, Welds and Welded Products	Rockwell Hardness HRC	ASTM A370
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials - Welds and Welded Products	% Elongation	ISO 5178
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	UTS	ASTM E8/E8M

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215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	UTS	BS EN ISO 6892-1
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	UTS	IS 1608 (Part 1)
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	UTS	JIS Z-2241
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	Yield Stress	JIS Z-2241
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products	YS	ASTM E8/E8M
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products, Welds and Welded Products	UTS	ASTM A370
221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & Products, Welds and Welded Products	YS	ASTM A370
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	Brinell Hardness (2.5 mm/187.5 kgf)	ASTM E10
223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	% Elongation	ASTM E8/E8M
224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	% Elongation	BS EN ISO 6892-1
225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	% Elongation	EN 10002-1 (Withdrawn Standard)
226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	% Elongation	ASTM A370
227	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	% Reduction Area	ASTM E8/E8M
228	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	% Reduction Area	BS EN ISO 6892-1

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229	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	% Reduction Area	EN 10002-1 (Withdrawn Standard)
230	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	% Reduction Area	IS 1608 (Part 1)
231	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	Bend Test	ASTM A370
232	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	Bend Test	ASTM E290
233	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	Bend Test	BS EN ISO 7438
234	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	Bend Test	IS 1599
235	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	Brinell Hardness (10 mm/3000 kgf)	ASTM E10
236	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	Brinell Hardness (10 mm/3000 kgf)	BS EN ISO 6506-1
237	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	Brinell Hardness (10 mm/3000 kgf)	IS 1500 (Part 1)
238	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	Brinell Hardness (2.5 mm/187.5 kgf)	BS EN ISO 6506-1
239	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	Brinell Hardness (2.5 mm/187.5 kgf)	IS 1500 (Part 1)
240	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	Brinell Hardness (5 mm/750 kgf)	ASTM E10
241	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	Brinell Hardness (5 mm/750 kgf)	BS EN ISO 6506-1
242	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	Brinell Hardness (5 mm/750 kgf)	IS 1500 (Part 1)

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243	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	Charpy Impact Test V-Notch (Room Temperature to -196 °C)	IS 1757 (Part 1)
244	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	Charpy Impact Test V-Notch (Room Temperature to -196 °C)	ASTM E23
245	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	YS	BS EN ISO 6892-1
246	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	YS	EN 10002-1 (Withdrawn Standard)
247	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products	YS	IS 1608 (Part 1)
248	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products - Tube	Flaring Test/ Drift Expansion	ISO 8493
249	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products, Welds and Welded Products	Brinell Hardness (10 mm/3000 kgf)	ASTM A370
250	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products, Welds and Welded Products	Brinell Hardness (2.5 mm/187.5 kgf)	ASTM A370
251	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products, Welds and Welded Products	% Reduction Area	ASTM A370
252	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products, Welds and Welded Products	Brinell Hardness (5 mm/750 kgf)	ASTM A370
253	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products, Welds and Welded Products	Charpy Impact Test V-Notch (Room Temperature to -196 °C)	ASTM A370
254	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products- Tube	Flaring Test/ Drift Expansion	IS 2330
255	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products- Tube	Flaring Test/ Drift Expansion	IS 2335
256	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products- Tube	Flattening Test	BS EN ISO 8492

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257	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys and Products- Tube	Flattening Test	IS 2328
258	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Gas and Arc Welding of Butt, Fillet and Socket Welds in Carbon and Low-Alloy Steel Piping	Bend Test	API 1104
259	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimen	0.2 % Proof Stress	ASME Section II Part A SA 370
260	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimen	0.2 % Proof Stress	AWS B4.0
261	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimen	0.2 % Proof Stress	ISO 5178
262	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimen	0.5 % Proof Stress	ASME Sec II Part A SA 370
263	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Bend test	ASME Sec II Part A SA 370
264	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Bend Test	ASME Section IX
265	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Bend Test	BS EN ISO 5173
266	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Bend Test	IS 3600 (Part 7)
267	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Brinell Hardness (10 mm/3000 kgf)	ASME Sec II Part A SA 370
268	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Flaring Test/ Drift Expansion	ASME Sec II Part A SA 370
269	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Flattening Test	ASME Sec II Part A SA 370
270	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Flattening Test	ASTM A370

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271	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Rockwell Hardness HR15TW	ASME Sec II Part A SA 370
272	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Rockwell Hardness HRA	ASME Sec II Part A SA 370
273	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Rockwell Hardness HRBW	ASME Sec II Part A SA 370
274	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Rockwell Hardness HRC	ASME Sec II Part A SA 370
275	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	% Reduction Area	ASME Sec II Part A SA 370
276	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	% Reduction Area	ISO 5178
277	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Bend Test	ASTM E190
278	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Bend Test	AWS B4.0
279	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Bend Test	IS 3600 (Part 5)
280	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Brinell Hardness (2.5 mm/187.5 kgf)	ASME Sec II Part A SA 370
281	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Brinell Hardness (5 mm/750 kgf)	ASME Sec II Part A SA 370
282	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Charpy Impact Test V-Notch (Room Temperature to -196 °C)	ASME Sec II Part A SA 370
283	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Flaring Test/ Drift Expansion	ASTM A370
284	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous- Weld and Welded Test Specimens	Rockwell Hardness HR30TW	ASME Sec II Part A SA 370

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285	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel- Pipes, Tubes	Bend Test	IS 2329
286	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Joint and Weld Metal in Steel	% Reduction Area	IS 3600 (Part 4)
287	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Joint and Weld Metal in Steel	0.2 % Proof Stress	IS 3600 (Part 4)
288	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Joint and Weld Metal in Steel	YS	IS 3600 (Part 4)
289	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel (Pipe, Tube, Plate, Cast Sample, Weld Metal Sample)	Susceptibility to Inter Granular Attack in Austenitic Stainless Steels Practice F - Copper - Copper Sulfate - 50% Sulfuric Acid Test	ASTM A262
290	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel (Pipe, Tube, Plate, Cast Sample, Weld Metal Sample)	Susceptibility to Inter Granular Attack in Austenitic Stainless Steels Practice A - Oxalic Acid Etch Test	ASTM A262
291	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel (Pipe, Tube, Plate, Cast Sample, Weld Metal Sample)	Susceptibility to Inter Granular Attack in Austenitic Stainless Steels Practice B - Ferric Sulfate-Sulfuric Acid Test	ASTM A262
292	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel (Pipe, Tube, Plate, Cast Sample, Weld Metal Sample)	Susceptibility to Inter Granular Attack in Austenitic Stainless Steels Practice C - Nitric Acid Test	ASTM A262
293	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel (Pipe, Tube, Plate, Cast Sample, Weld Metal Sample)	Susceptibility to Inter Granular Attack in Austenitic Stainless Steels Practice E - Copper - Copper Sulfate - Sulfuric Acid Test	ASTM A262
294	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Microstructure of Graphite and Nodularity	IS 7754
295	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Microstructure of Graphite and Nodularity	ASTM A247
296	MECHANICAL-METALLOGRAPHY TEST	Destructive Tests on Welds in Metallic Materials	Macroscopic and Microscopic Examination of Welds	ISO 17639

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297	MECHANICAL-METALLOGRAPHY TEST	Duplex (Austenitic/ Ferritic) Stainless Steel	Detection of Inter-metallic Phase - Method A (Sodium Hydroxide Etch Test)	ASTM A923
298	MECHANICAL-METALLOGRAPHY TEST	Duplex (Austenitic/ Ferritic) Stainless Steel	Ferric Chloride Corrosion Test - Method C	ASTM A923
299	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steel	Susceptibility to Inter Granular Attack in Ferritic Stainless Steels Method Y - Copper - Copper Sulfate - 50% Sulfuric Acid Test	ASTM A763
300	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steel	Susceptibility to Inter Granular Attack in Ferritic Stainless Steels Method Z - Copper - Copper Sulfate - 16% Sulfuric Acid Test	ASTM A763
301	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steel	Susceptibility to Inter Granular Attack in Ferritic Stainless Steels Method W - Oxalic Acid Etch Test	ASTM A763
302	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steel	Susceptibility to Inter Granular Attack in Ferritic Stainless Steels Method X - Ferric Sulfate - Sulfuric Acid Test	ASTM A763
303	MECHANICAL-METALLOGRAPHY TEST	Ferritic/ Austenitic/ Duplex (Ferritic- Austenitic) Stainless Steel	Corrosion Test in Nitric Acid Medium by Measurement of Loss in Mass (Huey Test)	ISO 3651-1
304	MECHANICAL-METALLOGRAPHY TEST	Ferritic/ Austenitic/ Duplex (Ferritic-Austenitic) Stainless Steel	Stainless Steels and Duplex Stainless Steel Resistance to Inter Granular Corrosion	ISO 3651-2
305	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material, Alloys & Products	Case Depth Measurement (Microscopic Method)	ISO 18203
306	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material, Alloys & Products	Decarburization Depth Measurement (Microscopic Method)	ASTM E1077
307	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Decarburization Depth Measurement (Microscopic Method)	IS 6396
308	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals & Non- Ferrous Metals, Weld Specimens	Macro Examination	ASME Section IX
309	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals & Non- Ferrous Metals, Weld Specimens	Macro Examination	IS 7318 (Part 1)

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310	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals (Steels), Weld Specimens	Macro Examination	IS 7310 (Part 1)
311	MECHANICAL-METALLOGRAPHY TEST	Fusion Welded Joints and Weld Metal in Steel	Macro & Micro Examination	IS 3600 (Part 9)
312	MECHANICAL-METALLOGRAPHY TEST	Fusion- Welded Joints in Steel, Nickel, Titanium, and their Alloys	Macro Examination	ISO 5817
313	MECHANICAL-METALLOGRAPHY TEST	Metal and Oxide Coating	Coating Thickness Measurement by Microscopic Method	ASTM B487
314	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Grain Size Measurement (Comparison Method)	ASTM E112
315	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials (Ferrous & Non- Ferrous)	Microstructure	ASM Handbook Volume 9
316	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials (Ferrous & Non- Ferrous)	Qualitative Metallography/ Volume Fraction Measurement	ASTM E1245
317	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials (Ferrous & Non- Ferrous)	Qualitative Metallography/ Volume fraction Measurement	ASTM E562
318	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials (Ferrous & Non- Ferrous)	Grain Size Measurement (Comparison Method)	ASTM E1382
319	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials (Ferrous)	Microscopic Examination of Carbide Structures in Steel	SEP 1520
320	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys	Macro Examination	ASTM E340
321	MECHANICAL-METALLOGRAPHY TEST	Specification and Qualification of Welding Procedures for Metallic Materials	Macro Examination	BS EN ISO 15614-8
322	MECHANICAL-METALLOGRAPHY TEST	Specification and Qualification of Welding Procedures for Metallic Materials (Nickel & Nickel Alloys)	Macro Examination	ISO 15614-1
323	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Macro Examination	AWS D1.6/D1.6M
324	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and related Alloys	Pitting and Crevice Corrosion Resistance of Stainless Steels and related Alloys by use of Ferric Chloride Solution, Method A - Ferric Chloride Pitting Test	ASTM G48

SCOPE OF ACCREDITATION

Laboratory Name : URJA METALLURGICAL SERVICES, GODOWN NO. 1, TULSI ESTATE & PLAZA, CHANGODAR, TALUKA SANAND, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 14/01/2022 to 13/01/2024 **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
325	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and related Alloys	Pitting and Crevice Corrosion Resistance of Stainless Steels and related Alloys by use of Ferric Chloride Solution, Method B - Ferric Chloride Crevice Corrosion Test	ASTM G48
326	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and related Alloys	Pitting and Crevice Corrosion Resistance of Stainless Steels and related Alloys by use of Ferric Chloride Solution, Method C - Critical Pitting Temperature Test for Nickel-Base and Chromium-Bearing Alloys	ASTM G48
327	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and related Alloys	Pitting and Crevice Corrosion Resistance of Stainless Steels and related Alloys by use of Ferric Chloride Solution, Method D - Critical Crevice Temperature Test for Nickel-Based and Chromium-Bearing Alloys	ASTM G48
328	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and related Alloys	Pitting and Crevice Corrosion Resistance of Stainless Steels and related Alloys by use of Ferric Chloride Solution, Method E - Critical Pitting Temperature Test for Stainless Steels	ASTM G48
329	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and related Alloys	Pitting and Crevice Corrosion Resistance of Stainless Steels and related Alloys by use of Ferric Chloride Solution, Method F - Critical Crevice Temperature Test for Stainless Steels	ASTM G48
330	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Rating	ASTM E45
331	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Rating	IS 4163
332	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Rating	ISO 4967
333	MECHANICAL-METALLOGRAPHY TEST	Steel	Grain Size Measurement (Comparison Method)	IS 4748

National Accreditation Board for Testing and Calibration Laboratories

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334	MECHANICAL-METALLOGRAPHY TEST	Steel	Grain Size Measurement (Comparison Method)	ISO 643
335	MECHANICAL-METALLOGRAPHY TEST	Steel	Macro Examination	AWS D1.1/D1.1M
336	MECHANICAL-METALLOGRAPHY TEST	Steel Bars, Billets, Blooms and Forgings	Macro Examination	ASTM E381
337	MECHANICAL-METALLOGRAPHY TEST	Steel Hardning Products	Case Depth Measurement (Microscopic Method)	IS 6416
338	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Macro Examination	IS 13015
339	MECHANICAL-METALLOGRAPHY TEST	Tool Steel Bars	Macro Examination	ASTM A561
340	MECHANICAL-METALLOGRAPHY TEST	Wrought Aluminium and Aluminium Alloy Products	Macro Examination	IS 12573
341	MECHANICAL-METALLOGRAPHY TEST	Wrought Steel Products	Macro Examination	IS 11371
342	MECHANICAL-METALLOGRAPHY TEST	Wrought, Nickel-Rich, Chromium-Bearing Alloys	Susceptibility to Inter Granular Corrosion Method A - Ferric Sulfate - Sulfuric Acid Test	ASTM G28
343	MECHANICAL-METALLOGRAPHY TEST	Wrought, Nickel-Rich, Chromium-Bearing Alloys	Susceptibility to Inter Granular Corrosion, Method B - Mixed Acid - Oxidating Salt Test	ASTM G28