National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : JEWEL METALLOCHEM LABORATORY PVT. LTD., A/12, GHATKOPAR INDUSTRIAL ESTATE, OFF: LBS MARG, GHATKOPAR (W), MUMBAI, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 04/10/2021 to 03/10/2023 **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 and Aluminium Alloys	Chromium	ASTM E1251
2	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Chromium	ASTM E34
3	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Copper	ASTM E1251
4	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Copper	ASTM E34
5	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Iron	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Iron	ASTM E34
7	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Lead	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Lead	ASTM E34
9	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Magnesium	ASTM E1251
10	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Magnesium	ASTM E34
11	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Manganese	ASTM E 1251
12	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Manganese	ASTM E34
13	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Nickel	ASTM E1251
14	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Nickel	JMLPL/WI/CH.1 dt. 07.08.2020EM- 56(AAS) Issue No
15	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Silicon	ASTM E1251
16	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Silicon	IS 504 (Part-1) Cl.7.0
17	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Tin	ASTM E1251
18	CHEMICAL- METALS & ALLOYS	Aluminium and Aluminium Alloys	Titanium	ASTM E1251

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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	Aluminium and Aluminium Alloys	Zinc	ASTM E1251
20	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloys	Zinc	ASTM E34
21	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Aluminium	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Antimony	JMLPL/WI/CHEM- 15(AAS) Issue No.2 dt. 07.08.2020
23	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Arsenic	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Boron	ASTM E415
25	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Carbon	ASTM E1019
26	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Carbon	ASTM E415
27	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Chromium	ASTM E350
28	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Chromium	ASTM E415
29	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Chromium	JMLPL/WI/CHEM-15(AAS) Issue No.2 dt.01.05.16
30	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Cobalt	ASTM E415
31	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Cobalt	JMLPL/WI/CHEM- 15(AAS) Issue No.2 dt.07.08.2020
32	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Copper	ASTM E415
33	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Copper	JMLPL/WI/CHEM-15(AAS) Issue No.2 dt.01.05.16
34	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Lead	JMLPL/WI/CHEM-15(AAS) Issue No.2 dt.01.05.16
35	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Manganese	ASTM E350
36	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Manganese	ASTM E415
37	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Manganese	JMLPL JMLPL/WI/CHEM-15(AAS) Issue No.2 dt.01.05.16

SCOPE OF ACCREDITATION

Laboratory Name : JEWEL METALLOCHEM LABORATORY PVT. LTD., A/12, GHATKOPAR INDUSTRIAL ESTATE, OFF: LBS MARG, GHATKOPAR (W), MUMBAI, MAHARASHTRA, INDIA

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
38	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Molybdenum	ASTM E415
39	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Molybdenum	IS 228 Part-7
40	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Molybdenum	JMLPL/WI/CHEM-15(AAS) Issue No.2 dt.01.05.16
41	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Nickel	ASTM E415
42	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Nickel	IS 228 Part-5
43	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Nickel	JMLPL/WI/CHEM-15(AAS) Issue No.2 dt.01.05.16
44	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Niobium	ASTM E415
45	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Nitrogen	ASTM E1019
46	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Oxygen	ASTM E1019
47	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Phosphorus	ASTM E350
48	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Phosphorus	ASTM E415
49	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Silicon	ASTM E350
50	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Silicon	ASTM E415
51	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Sulphur	ASTM E1019
52	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Sulphur	ASTM E415
53	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Tin	ASTM E415
54	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Titanium	ASTM E415
55	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Vanadium	ASTM E415
56	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Vanadium	JMLPL/WI/CHEM-15(AAS) Issue No.2 dt.01.05.16

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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	Cast Iron	Carbon	ASTM E1019
58	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 12308 (Part 8)
59	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 12308 (Part 10)
60	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E354 (Gravimetric)
61	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS 12308 (Part 7)
62	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 12308 (Part 5)
63	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 12308 (Part 6)
64	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1019
65	CHEMICAL- METALS & ALLOYS	Copper Alloy	Aluminum	BS EN 15079
66	CHEMICAL- METALS & ALLOYS	Copper Alloy	Bismuth	BS EN 15079
67	CHEMICAL- METALS & ALLOYS	Copper Alloy	Iron	BS EN 15079
68	CHEMICAL- METALS & ALLOYS	Copper Alloy	Lead	BS EN 15079
69	CHEMICAL- METALS & ALLOYS	Copper Alloy	Manganese	BS EN 15079
70	CHEMICAL- METALS & ALLOYS	Copper Alloy	Nickel	BS EN 15079
71	CHEMICAL- METALS & ALLOYS	Copper Alloy	Phosphorus	BS EN 15079
72	CHEMICAL- METALS & ALLOYS	Copper Alloy	Silicon	BS EN 15079
73	CHEMICAL- METALS & ALLOYS	Copper Alloy	Tin	BS EN 15079
74	CHEMICAL- METALS & ALLOYS	Copper Alloy	Zinc	BS EN 15079
75	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Aluminum	JMLPL/WI/CHEM- 57 Issue No.1 dt. 17.08.20

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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	Copper and its Alloys	Antimony	JMLPL/WI/CHEM-57 Issue No.1 dt. 17.08.20
77	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Arsenic	ASTM E478
78	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Copper	ASTM E 53
79	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Copper	IS 440
80	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Iron	IS 440
81	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Lead	ASTM E478 (Cl. 90-100)
82	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Lead	IS 4027 (Part 1)
83	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Manganese	JMLPL/WI/CHEM- 57 Issue No.1 dt. 17.08.20
84	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Nickel	IS 4027 (Part 4)
85	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Oxygen	JMLPL/WI/CHEM/53 Issue No.1 dt. 01.07.2018
86	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Phosphorus	IS 4027 (Part 3)
87	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Silicon	IS 3685
88	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Tin	IS 3685
89	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Zinc	ASTM E478 (Cl. 79 to 89)
90	CHEMICAL- METALS & ALLOYS	Copper and its Alloys	Zinc	IS 4027 (Part 6)
91	CHEMICAL- METALS & ALLOYS	Ferro Chrome	Chromium	IS 13452 (Part 5)
92	CHEMICAL- METALS & ALLOYS	Ferro Chrome	Chromium	IS 13452 (Part 6)
93	CHEMICAL- METALS & ALLOYS	Ferro Chrome	Phosphorus	IS 13452 (Part 7)
94	CHEMICAL- METALS & ALLOYS	Ferro Chrome	Silicon	IS 13452 (Part 1 and 2)

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Accreditation Standard	ISO/IEC 17025:2017		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
95	CHEMICAL- METALS & ALLOYS	Ferro Manganese	Manganese	IS 1559
96	CHEMICAL- METALS & ALLOYS	Ferro Manganese	Manganese	JMLPL/WI/CHEM-16 (AAS) ISSUE NO.2 DT. 01.05.2016
97	CHEMICAL- METALS & ALLOYS	Ferro Manganese	Phosphorus	IS 13452 (Part 7)
98	CHEMICAL- METALS & ALLOYS	Ferro Molybdenum	Molybdenum	IS 12614 (Part 1)
99	CHEMICAL- METALS & ALLOYS	Ferro Molybdenum	Phosphorus	IS 12614 (Part 5)
100	CHEMICAL- METALS & ALLOYS	Ferro Molybdenum	Silicon	IS 12614 (Part 3)
101	CHEMICAL- METALS & ALLOYS	Ferro Silicon	Carbon	ASTM E1019
102	CHEMICAL- METALS & ALLOYS	Ferro Silicon	Phosphorus	IS 1559 (Part 4)
103	CHEMICAL- METALS & ALLOYS	Ferro Silicon	Silicon	IS 1559 (Part 3)
104	CHEMICAL- METALS & ALLOYS	Ferro Silicon	Sulphur	ASTM E1019
105	CHEMICAL- METALS & ALLOYS	Ferro Titanium	Silicon	IS 13840 (Part 2)
106	CHEMICAL- METALS & ALLOYS	Ferro Titanium	Titanium	IS 13840 (Part 3)
107	CHEMICAL- METALS & ALLOYS	Ferro Vanadium	Phosphorus	IS 1559 (Part 4)
108	CHEMICAL- METALS & ALLOYS	Ferro Vanadium	Silicon	IS 1559 (Part 1)
109	CHEMICAL- METALS & ALLOYS	Ferro Vanadium	Vanadium	IS 1559
110	CHEMICAL- METALS & ALLOYS	Lead and its Alloy	Antimony	IS 403
111	CHEMICAL- METALS & ALLOYS	Lead and its Alloy	Bismuth	ASTM E37
112	CHEMICAL- METALS & ALLOYS	Lead and its Alloy	Iron	JMLPL/WI/CHEM-63 Issue No.1 dt. 17.08.20
113	CHEMICAL- METALS & ALLOYS	Lead and its Alloy	Lead	ASTM E37

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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	Lead and its Alloy	Nickel	JMLPL/WI/CHEM-63 Issue No.1 dt. 17.08.20
115	CHEMICAL- METALS & ALLOYS	Lead and its Alloy	Tin	JMLPL/WI/CHEM-63 Issue No.1 dt. 17.08.20
116	CHEMICAL- METALS & ALLOYS	Lead and its Alloy	Zinc	ASTM E37
117	CHEMICAL- METALS & ALLOYS	Lead and its Alloys	Cadmium	ASTM E37
118	CHEMICAL- METALS & ALLOYS	Lead and its Alloys	Copper	ASTM E37
119	CHEMICAL- METALS & ALLOYS	Lead and its Alloys	Silver	ASTM E37
120	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Aluminium	ASTM E3047
121	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Aluminium	JMLPL/WI/CHEM-58 Issue No.1 dt. 17.08.20
122	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Aluminum	JMLPL/WI/Chem-22 Issue No.2 dt. 01.05.2016
123	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Boron	ASTM E3047
124	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Boron	JMLPL/WI/Chem-22 Issue No.2 dt. 01.05.2016
125	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Carbon	ASTM E1019
126	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Carbon	ASTM E3047
127	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Carbon	JMLPL/WI/Chem-22 Issue No.2 dt. 01.05.2016
128	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Chromium	ASTM E3047
129	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Chromium	ASTM E354
130	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Chromium	JMLPL/WI/Chem-22 Issue No.2 dt. 01.05.2016
131	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Cobalt	ASTM E3047
132	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Cobalt	JMLPL/WI/Chem-22 Issue No.2 dt. 01.05.2016

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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
133	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Cobalt	JMLPL/WI/CHEM-58 Issue No.1 dt. 17.08.20
134	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Copper	ASTM E3047
135	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Copper	JMLPL/WI/Chem-22 Issue No.2 dt. 01.05.2016
136	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Copper	JMLPL/WI/CHEM-58 Issue No.1 dt. 17.08.20
137	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Iron	ASTM E3047
138	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Iron	JMLPL/WI/Chem-22 Issue No.2 dt. 01.05.2016
139	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Iron	JMLPL/WI/CHEM-58 Issue No.1 dt. 17.08.20
140	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Magnesium	ASTM E3047
141	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Manganese	ASTM E3047
142	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Manganese	JMLPL/WI/Chem-22 Issue No.2 dt. 01.05.2016
143	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Manganese	JMLPL/WI/CHEM-58 Issue No.1 dt. 17.08.20
144	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Molybdenum	ASTM E3047
145	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Molybdenum	ASTM E354
146	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Molybdenum	JMLPL/WI/Chem-22 Issue No.2 dt. 01.05.2016
147	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Nickel	ASTM E354
148	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Niobium	ASTM E3047
149	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Niobium	JMLPL/WI/Chem-22 Issue No.2 dt. 01.05.2016
150	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Phosphorus	ASTM E3047
151	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Phosphorus	JMLPL/WI/Chem-22 Issue No.2 dt. 01.05.2016

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152	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Silicon	ASTM E3047
153	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Silicon	ASTM E354
154	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Silicon	JMLPL/WI/Chem-22 Issue No.2 dt. 01.05.2016
155	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Sulphur	ASTM E1019
156	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Sulphur	ASTM E3047
157	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Sulphur	JMLPL/WI/Chem-22 Issue No.2 dt. 01.05.2016
158	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Titanium	ASTM E3047
159	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Titanium	JMLPL/WI/Chem-22 Issue No.2 dt. 01.05.2016
160	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Tungsten	JMLPL/WI/Chem-22 Issue No.2 dt. 01.05.2016
161	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Tungsten	ASTM E3047
162	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Vanadium	ASTM E3047
163	CHEMICAL- METALS & ALLOYS	Nickel and its Alloys	Vanadium	JMLPL/WI/Chem-22 Issue No.2 dt. 01.05.2016
164	CHEMICAL- METALS & ALLOYS	Silico Manganese	Manganese	IS 1559
165	CHEMICAL- METALS & ALLOYS	Silico Manganese	Manganese	JMLPL/WI/CHEM-16 (AAS) ISSUE NO.2 DT. 01.05.2016
166	CHEMICAL- METALS & ALLOYS	Silico Manganese	Phosphorus	IS 1559 (Part 4)
167	CHEMICAL- METALS & ALLOYS	Silico Manganese	Silicon	IS 1559 (Part 1)
168	CHEMICAL- METALS & ALLOYS	Silver and Brazing Alloy	Cadmium	IS 4667 (Part 4)
169	CHEMICAL- METALS & ALLOYS	Silver and Brazing Alloy	Copper	IS 4667 (Part 4)
170	CHEMICAL- METALS & ALLOYS	Silver and Brazing Alloy	Phophorus	IS 4667 (Part 4)

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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
171	CHEMICAL- METALS & ALLOYS	Silver and Brazing Alloy	Silver	IS 4667 (Part 4)
172	CHEMICAL- METALS & ALLOYS	Silver and Brazing Alloy	Zinc	IS 4667 (Part 4)
173	CHEMICAL- METALS & ALLOYS	Stainless Steel	Boron	JMLPL/WI/CHEM-23 Issue No.1 dt. 01.05.16
174	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1019
175	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
176	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E353
177	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	JMLPL/WI/CHEM-23 Issue No.1 dt. 01.05.16
178	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	JMLPL/WI/CHEM-23 Issue No.1 dt. 01.05.16
179	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	JMLPL/WI/CHEM-16 (AAS) ISSUE NO.2 DT. 01.05.2016
180	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	JMLPL/WI/CHEM-23 Issue No.1 dt. 01.05.16
181	CHEMICAL- METALS & ALLOYS	Stainless Steel	Lead	JMLPL/WI/CHEM-23 Issue No.1 dt. 01.05.16
182	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
183	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	JMLPL/WI/CHEM-16 (AAS) ISSUE NO.2 DT. 01.05.2016
184	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
185	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 228 Part-7
186	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	JMLPL/WI/CHEM-16 (AAS) ISSUE NO.2 DT. 01.05.2016
187	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 228 Part-5
188	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	JMLPL/WI/CHEM-16 (AAS) ISSUE NO.2 DT. 01.05.2016
189	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	JMLPL/WI/CHEM-23 Issue No.1 dt. 01.05.16

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190	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	JMLPL/WI/CHEM-23 Issue No.1 dt. 01.05.16
191	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	ASTM E1019
192	CHEMICAL- METALS & ALLOYS	Stainless Steel	Oxygen	ASTM E1019
193	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phophorus	ASTM E1086
194	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E353
195	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
196	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E353
197	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1019
198	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
199	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	JMLPL/WI/CHEM-23 Issue No.1 dt. 01.05.16
200	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	JMLPL/WI/CHEM-16 (AAS) ISSUE NO.2 DT. 01.05.2016
201	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	JMLPL/WI/CHEM-23 Issue No.1 dt. 01.05.16
202	CHEMICAL- METALS & ALLOYS	Tin and Lead and its Alloys	Antimony	JMLPL/WI/CHEM-64 Issue No.1 dt. 17.08.20
203	CHEMICAL- METALS & ALLOYS	Tin and Lead and its Alloys	Bismuth	ASTM E37
204	CHEMICAL- METALS & ALLOYS	Tin and Lead and its Alloys	Cadmium	JMLPL/WI/CHEM-64 Issue No.1 dt. 17.08.20
205	CHEMICAL- METALS & ALLOYS	Tin and Lead and its Alloys	Copper	ASTM E37
206	CHEMICAL- METALS & ALLOYS	Tin and Lead and its Alloys	Iron	JMLPL/WI/CHEM-64 Issue No.1 dt. 17.08.20
207	CHEMICAL- METALS & ALLOYS	Tin and Lead and its Alloys	Lead	JMLPL/WI/CHEM-64 Issue No.1 dt. 17.08.20
208	CHEMICAL- METALS & ALLOYS	Tin and Lead and its Alloys	Nickel	JMLPL/WI/CHEM-64 Issue No.1 dt. 17.08.20

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209	CHEMICAL- METALS & ALLOYS	Tin and Lead and its Alloys	Silver	ASTM E37
210	CHEMICAL- METALS & ALLOYS	Tin and Lead and its Alloys	Tin	JMLPL/WI/CHEM-64 Issue No.1 dt. 17.08.20
211	CHEMICAL- METALS & ALLOYS	Tin and Lead and its Alloys	Zinc	JMLPL/WI/CHEM-64 Issue No.1 dt. 17.08.20
212	CHEMICAL- METALS & ALLOYS	Titanium and its Alloys	Aluminum	JMLPL/WI/CHEM-62 Issue No.1 dt. 17.08.20
213	CHEMICAL- METALS & ALLOYS	Titanium and its Alloys	Carbon	ASTM E1019
214	CHEMICAL- METALS & ALLOYS	Titanium and its Alloys	Iron	JMLPL/WI/CHEM-18 (AAS) Issue No.1 dt. 01.05.16
215	CHEMICAL- METALS & ALLOYS	Titanium and its Alloys	Molybdenum	JMLPL/WI/CHEM-62 Issue No.1 dt. 17.08.20
216	CHEMICAL- METALS & ALLOYS	Titanium and its Alloys	Nickel	JMLPL/WI/CHEM-62 Issue No.1 dt. 17.08.20
217	CHEMICAL- METALS & ALLOYS	Titanium and its Alloys	Vanadium	JMLPL/WI/CHEM-61 Issue No.1 dt. 17.08.20
218	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	ASTM E1019
219	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	ASTM E352
220	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	ASTM E352
221	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	ASTM E352
222	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	ASTM E352
223	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	ASTM E352
224	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	ASTM E1019
225	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	ASTM E352
226	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	ASTM E352
227	CHEMICAL- METALS & ALLOYS	Zinc and its Alloys	Aluminium	JMLPL/WI/CHEM-17 Issue No.1 dt. 01.05.2016

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228	CHEMICAL- METALS & ALLOYS	Zinc and its Alloys	Cadmium	ASTM E536
229	CHEMICAL- METALS & ALLOYS	Zinc and its Alloys	Copper	ASTM E536
230	CHEMICAL- METALS & ALLOYS	Zinc and its Alloys	Iron	ASTM E536
231	CHEMICAL- METALS & ALLOYS	Zinc and its Alloys	Lead	ASTM E536
232	CHEMICAL- METALS & ALLOYS	Zinc and its Alloys	Magnesium	ASTM E536
233	CHEMICAL- METALS & ALLOYS	Zinc and its Alloys	Manganese	JMLPL/WI/CHEM-59 Issue No.1 dt. 17.08.20
234	CHEMICAL- METALS & ALLOYS	Zinc and its Alloys	Nickel	JMLPL/WI/CHEM-59 Issue No.1 dt. 17.08.20
235	CHEMICAL- METALS & ALLOYS	Zinc and its Alloys	Silicon	JMLPL/WI/CHEM-59 Issue No.1 dt. 17.08.20
236	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bolt	Tensile Test under wedge loading (Tensile Strength)	ASTM A193/A193M
237	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bolt	Tensile Test under wedge loading (Tensile Strength)	ASTM A962/A962M
238	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bolt	Tensile Test under wedge loading (Tensile Strength)	ASTM F606/F606M
239	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bolt	Tensile Test under wedge loading (Tensile Strength)	IS 1367 (Part 3)
240	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bolt	Tensile Test under wedge loading (Tensile Strength)	ISO- 898-1
241	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coil Springs	Compression Test – Axial load	IS:7906-5
242	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloy Strip	Bend Test	ASTM B820
243	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Fabrications - Tube to Tube sheet	Pull out Test	ASME Section IX

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244	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fabrications - Tube to Tube sheet	Pull out Test	IBR 1950
245	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Bend Test	API 1104
246	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Bend Test	API-5L
247	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Bend Test	ASME Sec - II
248	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Bend Test	ASME Sec - IX
249	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Bend Test	ASTM E290
250	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Bend Test	AWS B4.0/B4.0M
251	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Bend Test	AWS D1.0/D1.0M
252	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Bend Test	IBR 1950
253	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Bend Test	IS 1599
254	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Bend Test	IS 3600 (Part-6)
255	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Bend Test	IS 3600 (Part-7)
256	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Bend Test	IS 7310-1
257	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Bend Test	IS 7317-1

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258	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Bend Test	IS 814
259	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Brinell	ASTM E10
260	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Brinell	ASTM E10
261	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Brinell	AWS B4.0/B4.0M
262	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Brinell	AWS B4.0/B4.0M
263	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Brinell	IS 1500-1
264	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Brinell	IS 1500-1
265	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Brinell	ISO 6506-1
266	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Brinell	ISO 6506-1
267	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Micro-Vickers	ASTM E384
268	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Micro-Vickers	IS 1501-1
269	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Micro-Vickers	ISO 6507-1
270	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Rockwell-B	ASTM E18
271	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Rockwell-B	IS 1586-1

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272	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Rockwell-B	ISO 6508-1
273	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Rockwell-C	ASTM E18
274	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Rockwell-C	IS 1586-1
275	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Rockwell-C	ISO 6508-1
276	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Vickers	ASTM E92
277	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Vickers	IS 1501-1
278	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Hardness - Vickers	ISO 6507-1
279	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Impact Test - Charpy V-Notch, Temperature (-70 to 35) degC and (-196) degC.	ASTM E23
280	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Impact Test - Charpy V-Notch, Temperature (-70 to 35) degC and (-196) degC.	IS 1757-1
281	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Impact Test - Charpy V-Notch, Temperature (-70 to 35) degC and (-196) degC.	ISO 148-1
282	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: 0.2 % Proof Stress	API 1104
283	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: 0.2 % Proof Stress	ASME Sec-IX
284	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: 0.2 % Proof Stress	ASTM E8/E8M
285	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, products and welded coupons	Tensile Testing: 0.2 % Proof Stress	AWS D1.1/D1.1M

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286	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: 0.2 % Proof Stress	IBR 1950
287	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: 0.2 % Proof Stress	IS 1608 Part-1
288	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: 0.2 % Proof Stress	ISO 6892-1
289	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Elongation	API 1104
290	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Elongation	ASME SEC-IX
291	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Elongation	ASTM E8/E8M
292	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Elongation	AWS D1.1/D1.1M
293	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Elongation	IBR 1950
294	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Elongation	IS 1608 Part-1
295	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Elongation	ISO 6892-1
296	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Reduction Area	API 1104
297	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Reduction Area	ASME Sec-IX

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298	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Reduction Area	ASTM A370-19, ASTM E8/E8M-16a, IS 1608 (Part 1): 2018, ISO 6892-1-2019, AWS B4.0-2016, API-1104:2013, ASME SEC.IX - 2019, ISO 4136-2012, ISO 5178-2019, AWS D1.1/D1.1M : 2020, ISO-15614-1-2017, IBR 1950 - 2017, IS 3600 Part-4-1984 (16), IS 7307
299	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Reduction Area	ASTM E8/E8M
300	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Reduction Area	AWS D1.1/D1.1M
301	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Reduction Area	IBR 1950
302	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Reduction Area	IS 1608 Part-1
303	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Reduction Area	ISO 6892-1
304	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Ultimate Tensile Strength	API 1104
305	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Ultimate Tensile Strength	ASME Sec-IX
306	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Ultimate Tensile Strength	ASTM A370-19, ASTM E8/E8M-16a, IS 1608 (Part 1): 2018, ISO 6892-1-2019, AWS B4.0-2016, API-1104:2013, ASME SEC.IX - 2019, ISO 4136-2012, ISO 5178-2019, AWS D1.1/D1.1M : 2020, ISO-15614-1-2017, IBR 1950 - 2017, IS 3600 Part-4-1984 (16), IS 7307
307	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Ultimate Tensile Strength	ASTM E8/E8M

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308	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Ultimate Tensile Strength	AWS D1.1/D1.1M
309	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Ultimate Tensile Strength	IBR 1950
310	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Ultimate Tensile Strength	IS 1608 Part-1
311	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Ultimate Tensile Strength	ISO 6892-1
312	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Yield Strength	API 1104
313	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Yield Strength	ASME Sec-IX
314	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Yield Strength	ASTM A370-19, ASTM E8/E8M-16a, IS 1608 (Part 1): 2018, ISO 6892-1-2019, AWS B4.0-2016, API-1104:2013, ASME SEC.IX - 2019, ISO 4136-2012, ISO 5178-2019, AWS D1.1/D1.1M : 2020, ISO-15614-1-2017, IBR 1950 - 2017, IS 3600 Part-4-1984 (16), IS 7307
315	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Yield Strength	ASTM E8/E8M
316	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Yield Strength	AWS D1.1/D1.1M
317	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Yield Strength	IBR 1950
318	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Yield Strength	IS 1608 Part-1
319	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals & Alloys, Products and welded coupons	Tensile Testing: Yield Strength	ISO 6892-1

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320	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion welded butt joints in steel	Bend Test - Transverse side	ISO 5177
321	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hardmetals	Hardness - Vickers	IS 12783
322	MECHANICAL-MECHANICAL PROPERTIES OF METALS	HSD bar / TMT bar	Bend test	IS 1599
323	MECHANICAL-MECHANICAL PROPERTIES OF METALS	HSD bar / TMT bar	Bend test	IS 1786
324	MECHANICAL-MECHANICAL PROPERTIES OF METALS	HSD bar / TMT bar	Mass per unit Length	IS 1786
325	MECHANICAL-MECHANICAL PROPERTIES OF METALS	HSD bar / TMT bar	Re-bend Test	IS 1786
326	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal and Alloys Product and welded coupons	Reverse Bend	IS 1403
327	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal and Alloys Product and welded coupons	Reverse Bend	IS 1716
328	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Surface	Surface Roughness (Ra)	ISO 4288
329	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nut	Proof Load Test	ASTM A194/1194M
330	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nut	Proof Load Test	ASTM A370
331	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nut	Proof Load Test	ASTM A962/A962M
332	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nut	Proof Load Test	IS 1367 Part-6
333	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nut	Proof Load Test	ISO 898-2

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334	MECHANICAL-MECHANICAL PROPERTIES OF METALS	SS (Nickel - Chromium) Cladding on CS/LAS Plates.	Shear Test	ASTM A263
335	MECHANICAL-MECHANICAL PROPERTIES OF METALS	SS (Nickel - Chromium) Cladding on CS/LAS Plates.	Shear Test	ASTM A264
336	MECHANICAL-MECHANICAL PROPERTIES OF METALS	SS (Nickel - Chromium) Cladding on CS/LAS Plates.	Shear Test	ASTM A265
337	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Ball	Crushing Strength	ASTM E9
338	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Plates	Through Thickness Tension Test - % Reduction Area.	ASTM A770/A770M
339	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Plates	Through Thickness Tension Test - % Reduction Area.	EN 10164
340	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel rod	Double Shear	IS 5242
341	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels, Stainless Steels and Related Alloys	Bend Test	ASTM A370
342	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels, Stainless Steels and Related Alloys	Hardness - Brinell	ASTM A370
343	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels, Stainless Steels and Related Alloys	Hardness - Brinell	ASTM A370
344	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels, Stainless Steels and Related Alloys	Hardness - Rockwell-B	ASTM A370
345	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels, Stainless Steels and Related Alloys	Hardness - Rockwell-C	ASTM A370
346	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels, Stainless Steels and Related Alloys	Impact Test - Charpy V-Notch, Temperature (-70 to 35) degC and (-196) degC.	ASTM A370
347	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels, Stainless Steels and Related Alloys	Tensile Testing: 0.2 % Proof Stress	ASTM A370

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348	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels, Stainless Steels and Related Alloys	Tensile Testing: Elongation	ASTM A370
349	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels, Stainless Steels and Related Alloys	Tensile Testing: Reduction Area	ASTM A370
350	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels, Stainless Steels and Related Alloys	Tensile Testing: Ultimate Tensile Strength	ASTM A370
351	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels, Stainless Steels and Related Alloys	Tensile Testing: Yield Strength	ASTM A370
352	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stud & Bolt	Proof Load Test	ASTM A193/A193M
353	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stud & Bolt	Proof Load Test	ASTM A962/A962M
354	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stud & Bolt	Proof Load Test	ASTM F606/F606M
355	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stud & Bolt	Proof Load Test	IS 1367 Part-3
356	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stud & Bolt	Proof Load Test	ISO 898-1
357	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube	Flanging Test	ASTM A1016/A1016M
358	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube	Flanging Test	ASTM A450/A450M
359	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube	Flanging Test	IS 2330
360	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube & Pipe	Drift Expansion / Flaring Test	ASTM A1016/A1016M
361	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube & Pipe	Drift Expansion / Flaring Test	ASTM A370

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362	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube & Pipe	Drift Expansion / Flaring Test	ASTM A450/A450M
363	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube & Pipe	Drift Expansion / Flaring Test	ASTM B153
364	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube & Pipe	Drift Expansion / Flaring Test	BS 3059-1
365	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube & Pipe	Drift Expansion / Flaring Test	IBR 1950
366	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube & Pipe	Flattening Test	API-5L
367	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube & Pipe	Flattening Test	ASTM A1016/A1016M
368	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube & Pipe	Flattening Test	ASTM A370
369	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube & Pipe	Flattening Test	ASTM A450/A450M
370	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube & Pipe	Flattening Test	ASTM A530/A530M
371	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube & Pipe	Flattening Test	ASTM A999/A999M
372	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube & Pipe	Flattening Test	ASTM B968/B968M
373	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube & Pipe	Flattening Test	BS 3059-1
374	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube & Pipe	Flattening Test	IBR 1950
375	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube & Pipe	Flattening Test	IS 2328

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376	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube to Plate welding	Minimum Leak path Test	ASME Section IX- QW-193
377	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Hardness - Micro-Vickers	ISO 9015-2
378	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Hardness - Vickers	ISO 9015-1
379	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Hardness Vickers	AWS B4.0
380	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: 0.2 % Proof Stress	AWS B4.0
381	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: 0.2 % Proof Stress	IS 3600 Part-4
382	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: 0.2 % Proof Stress	IS 7307 Part-1
383	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: 0.2 % Proof Stress	ISO 4136
384	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: 0.2 % Proof Stress	ISO 5178
385	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Elongation	AWS B4.0
386	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Elongation	IS 3600 Part-4
387	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Elongation	IS 7307 Part-1
388	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Elongation	ISO 4136
389	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Elongation	ISO 5178

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390	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Reduction Area	AWS B4.0
391	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Reduction Area	IS 3600 Part-4
392	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Reduction Area	IS 7307 Part-1
393	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Reduction Area	ISO 4136
394	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Reduction Area	ISO 5178
395	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Ultimate Tensile Strength	AWS B4.0
396	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Ultimate Tensile Strength	IS 3400 Part-4
397	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Ultimate Tensile Strength	IS 7307 Part-1
398	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Ultimate Tensile Strength	ISO 4136
399	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Ultimate Tensile Strength	ISO 5178
400	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Yield Strength	AWS B4.0
401	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Yield Strength	IS 3400 Part-4
402	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Yield Strength	IS 7307 Part-1
403	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Tensile Testing: Yield Strength	ISO 5178

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404	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metals	Bend Test	ISO 5173
405	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Coupons	Bend Test	ASTM E190
406	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Mock ups and Fillet welds	Fracture Test on Mock up	ASME Section IX (QW 181, 182)
407	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Test coupon	Fracture Test	ASME Sec-IX
408	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Test coupon	Fracture Test	AWS B4.0
409	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Test coupon	Fracture Test	BS EN 1320
410	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Test coupon	Fracture Test	IS 2825
411	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Test coupon	Fracture Test	IS 7310 Part-1
412	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Test coupon	Fracture Test	ISO 9017
413	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Test coupon	Nick Break Test	API 1104
414	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Test coupon	Nick Break Test	API-1104- 2013, AWS B4.0/B4.0M- 2016, IBR 1950, IS 2825: 1969, IS 3600-8
415	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Test coupon	Nick Break Test	AWS B4.0
416	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Test coupon	Nick Break Test	IBR 1950
417	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Test coupon	Nick Break Test	IS 2825

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418	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Test coupon	Nick Break Test	IS 3600 Part-8
419	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welding of Steels, Nickel and Nickel Alloys	Tensile Testing: 0.2 % Proof Stress	ISO 15614-1
420	MECHANICAL-METALLOGRAPHY TEST	Austenitic and ferritic-austenitic (duplex) stainless steels	Corrosion test in nitric acid medium by measurement of loss in mass (Huey test)	ISO 3651-1
421	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Resistance to Inter-Granular Corrosion - Corrosion Test in Nitric Acid Medium by Measurement of Loss in Mass (Huey Test)	IS 10461 Part-1
422	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Susceptibility to Inter-granular Corrosion: Practice-A, B, C, E and F.	ASTM A262
423	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	Resistance to Intergranular Corrosion - Corrosion Test in a Sulphuric Acid / Copper Sulphate Medium in the Presence of Copper Turnings (Monypenny Strauss Test)	IS 10461 Part-2
424	MECHANICAL-METALLOGRAPHY TEST	Duplex Stainless Steel	Detecting Detrimental Intermetallic Phase: Method - A and C.	ASTM A923
425	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steel	Detecting Susceptibility to Intergranular Attack: Practice: W, X, Y and Z.	ASTM A763
426	MECHANICAL-METALLOGRAPHY TEST	Ferritic, austenitic and ferritic-austenitic (duplex) stainless steels	Resistance to intergranular corrosion - Corrosion test in media containing sulfuric acid: Method - A, B and C.	ISO 3651-2
427	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non- Ferrous Metals & Alloys, products and welded coupons	Macro Etching	ASME Sec-IX
428	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non- Ferrous Metals & Alloys, products and welded coupons	Macro Etching	ASTM E340
429	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non- Ferrous Metals & Alloys, products and welded coupons	Macro Etching	ASTM E381
430	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non- Ferrous Metals & Alloys, products and welded coupons	Macro Etching	AWS D1.1/D1.1M

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431	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non- Ferrous Metals & Alloys, products and welded coupons	Macro Etching	BS EN ISO 17639
432	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non- Ferrous Metals & Alloys, products and welded coupons	Macro Etching	IBR 1950
433	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non- Ferrous Metals & Alloys, products and welded coupons	Macro Etching	IS 11371
434	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non- Ferrous Metals & Alloys, products and welded coupons	Macro Etching	IS 13015
435	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non- Ferrous Metals & Alloys, products and welded coupons	Macro Etching	IS 3600 Part-9
436	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non- Ferrous Metals & Alloys, products and welded coupons	Macro Etching	ISO 5817
437	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non- Ferrous Metals & Alloys, products and welded coupons	Macro Etching	ISO 6520-1
438	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non-Ferrous Metals & Alloy (except copper)	Average grain Size by Comparison Method	ASTM E112
439	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non- Ferrous Metals and Alloys	Micro Structural Analysis	ASM Handbook, Vol 9
440	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non- Ferrous Metals and Alloys	Micro Structural Analysis	ASTM A247
441	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non- Ferrous Metals and Alloys	Micro Structural Analysis	ASTM E1351 (Replica Method)
442	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non- Ferrous Metals and Alloys	Micro Structural Analysis	ASTM E3
443	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non- Ferrous Metals and Alloys	Micro Structural Analysis	ASTM E407
444	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non- Ferrous Metals and Alloys	Micro Structural Analysis	IS 11959
445	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non- Ferrous Metals and Alloys	Micro Structural Analysis	IS 7754
446	MECHANICAL-METALLOGRAPHY TEST	Metallic Coated Material	Coating Thickness Measurement by Microscopic Method	IS 3203
447	MECHANICAL-METALLOGRAPHY TEST	Non-Ferrous Alloys - Copper	Average Grain size by Comparison Method	ASTM E112
448	MECHANICAL-METALLOGRAPHY TEST	Nonferrous Alloys- Copper Based	Mercurous Nitrate Test	ASTM B154

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449	MECHANICAL-METALLOGRAPHY TEST	Nonferrous Alloys- Copper Based	Mercurous Nitrate Test	IS 2305
450	MECHANICAL-METALLOGRAPHY TEST	Phosphate coated articles	Mass of phosphate coating	IS 3618
451	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Ferrite Content by Ferrite Meter	ASTM A800/A800M
452	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel and Ni-Cr alloys	Pitting and Crevice corrosion resistance test, Method: A, B, C, D, E and F.	ASTM G48
453	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel and Related Alloys	Stress-Corrosion-Cracking Resistance of Metals and Alloys in a Boiling Magnesium Chloride Solution	ASTM G36
454	MECHANICAL-METALLOGRAPHY TEST	Steel	Case depth Measurement by Microscopic Method	IS 6416
455	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of decarburization	ASTM E1077
456	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of decarburization	IS 6396
457	MECHANICAL-METALLOGRAPHY TEST	Steel	Non-Metallic Inclusion Rating	ASTM E45
458	MECHANICAL-METALLOGRAPHY TEST	Steel	Non-Metallic Inclusion Rating	IS 4163
459	MECHANICAL-METALLOGRAPHY TEST	Steel and other metals	Determining the Second Phase Constituent Content of Metals by Automatic Image Analysis	ASTM E1245
460	MECHANICAL-METALLOGRAPHY TEST	Wrought Ni-Cr Alloy	Susceptibility to Inter-granular Corrosion, Method: A and B.	ASTM G28
461	MECHANICAL-METALLOGRAPHY TEST	Zinc coated material	Mass of Zinc Coating	IS 6745
462	MECHANICAL-METALLOGRAPHY TEST	Zinc coated material	Uniformity of coating (preece test)	IS 2633

SCOPE OF ACCREDITATION

Laboratory Name : JEWEL METALLOCHEM LABORATORY PVT. LTD., A/12, GHATKOPAR INDUSTRIAL ESTATE, OFF: LBS MARG, GHATKOPAR (W), MUMBAI, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 04/10/2021 to 03/10/2023 **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
Site Facility				
1	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Surface	Surface Roughness (Ra)	ISO 4288
2	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non- Ferrous Metals and Alloys	Micro Structural Analysis	ASM Handbook, Vol 9
3	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non- Ferrous Metals and Alloys	Micro Structural Analysis	ASTM A247
4	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non- Ferrous Metals and Alloys	Micro Structural Analysis	ASTM E1351 (Replica Method)
5	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non- Ferrous Metals and Alloys	Micro Structural Analysis	ASTM E3
6	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non- Ferrous Metals and Alloys	Micro Structural Analysis	ASTM E407
7	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non- Ferrous Metals and Alloys	Micro Structural Analysis	IS 11959
8	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non- Ferrous Metals and Alloys	Micro Structural Analysis	IS 7754
9	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Ferrite Content by Ferrite Meter	ASTM A800/A800M