SCOPE OF ACCREDITATION

Laboratory Name : TCR ENGINEERING SERVICES PVT. LTD., VKB HOUSE, PLOT NO. EL 182, MIDC TTC, INDUSTRIAL AREA, ELECTRONIC ZONE, MAHAPE, NAVI MUMBAI, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- CORROSION TESTS	Metallic Material	Salt Spray Test	ISO 9227
2	CHEMICAL- CORROSION TESTS	Metallic Materials	Salt Spray Test	ASTM B117
3	CHEMICAL- CORROSION TESTS	Metallic Materials	Salt Spray Test	ASTM B368
4	CHEMICAL- CORROSION TESTS	Metallic Materials	Salt Spray Test	IS 6910
5	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS test for Electronics	Bromine	IEC 62321 -3-1
6	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS test for Electronics	Cadmium	IEC 62321-3-1
7	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS test for Electronics	Cadmium	IS 16197 (Part 3, Sec 1)
8	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS test for Electronics	Chromium	IEC 62321-3-1
9	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS test for Electronics	Chromium	IS 16197 (Part 3, Sec 1)
10	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS test for Electronics	Lead	IEC 62321-3-1
11	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS test for Electronics	Lead	IS 16197 (Part 3, Sec 1)
12	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS test for Electronics	Mercury	IEC 62321-3-1
13	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS test for Electronics	Mercury	IS 16197 (Part 3, Sec 1)
14	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Fabrics, Paper products	Bromine	IEC 62321 -3-1

SCOPE OF ACCREDITATION

Laboratory Name :	TCR ENGINEERING SERVICES PVT. LTD., VKB HOUSE, PLOT NO. EL 182, MIDC TTC, INDUSTRIAL AREA, ELECTRONIC ZONE, MAHAPE, NAVI MUMBAI, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
15	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Fabrics, Paper products	Cadmium	IEC 62321-3-1
16	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Fabrics, Paper products	Cadmium	IS 16197 (Part 3, Sec 1)
17	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Fabrics, Paper products	Chromium	IEC 62321-3-1
18	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Fabrics, Paper products	Chromium	IS 16197 (Part 3, Sec 1)
19	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Fabrics, Paper products	Lead	IEC 62321-3-1
20	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Fabrics, Paper products	Lead	IS 16197 (Part 3, Sec 1)
21	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Fabrics, Paper products	Mercury	IEC 62321-3-1
22	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Fabrics, Paper products	Mercury	IS 16197 (Part 3, Sec 1)
23	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Lighting,Lamps,lighting fixtures,light bulb,electrical wrings	Bromine	IEC 62321 -3-1:
24	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Lighting,Lamps,lighting fixtures,light bulb,electrical wrings	Cadmium	IEC 62321-3-1
25	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Lighting,Lamps,lighting fixtures,light bulb,electrical wrings	Cadmium	IS 16197 (Part 3, Sec 1)
26	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Lighting,Lamps,lighting fixtures,light bulb,electrical wrings	Chromium	IEC 62321-3-1
27	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Lighting,Lamps,lighting fixtures,light bulb,electrical wrings	Chromium	IS 16197 (Part 3, Sec 1)
28	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Lighting,Lamps,lighting fixtures,light bulb,electrical wrings	Lead	IEC 62321-3-1

SCOPE OF ACCREDITATION

Laboratory Name : TCR ENGINEERING SERVICES PVT. LTD., VKB HOUSE, PLOT NO. EL 182, MIDC TTC, INDUSTRIAL AREA, ELECTRONIC ZONE, MAHAPE, NAVI 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
29	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Lighting,Lamps,lighting fixtures,light bulb,electrical wrings	Lead	IS 16197 (Part 3, Sec 1)
30	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Lighting,Lamps,lighting fixtures,light bulb,electrical wrings	Mercury	IEC 62321-3-1
31	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Lighting,Lamps,lighting fixtures,light bulb,electrical wrings	Mercury	IS 16197 (Part 3, Sec 1)
32	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Bromine	IEC 62321 -3-1
33	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Cadmium	IEC 62321-3-1; 2013, IEC 62321-5
34	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Cadmium	IS 16197 (Part 3, Sec 1)/ IS 16197 (Part 5)
35	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Chromium	IEC 62321 -3-1
36	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Chromium	IS 16197 (Part 3, Sec 1)/ IS 16197 (Part 5)
37	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Chromium(VI)	IEC 62321-7-1
38	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Chromium(VI)	IS 16197 (Part 7, Sec 1)
39	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Lead	IEC 62321-3-1; 2013, IEC 62321-5
40	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Lead	IS 16197 (Part 3, Sec 1)/ IS 16197 (Part 5)
41	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Mercury	IEC 62321-3-1; 2013, IEC 62321-4
42	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Mercury	IS 16197 (Part 3, Sec 1)/ IS 16197 (Part 4)

SCOPE OF ACCREDITATION

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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
43	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Paints & Inks products	Bromine	IEC 62321 -3-1:
44	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Paints & Inks products	Cadmium	IEC 62321-3-1
45	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Paints & Inks products	Cadmium	IS 16197 (Part 3: Sec 1)
46	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Paints & Inks products	Chromium	IEC 62321-3-1
47	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Paints & Inks products	Chromium	IS 16197 (Part 3: Sec 1)
48	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Paints & Inks products	Lead	IEC 62321-3-1
49	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Paints & Inks products	Lead	IS 16197 (Part 3: Sec 1)
50	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Paints & Inks products	Mercury	IEC 62321-3-1
51	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Paints & Inks products	Mercury	IS 16197 (Part 3: Sec 1)
52	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Products of plastics, Resins,Rubbers,Glues	Bromine	IEC 62321 -3-1
53	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Products of plastics, Resins,Rubbers,Glues	Cadmium	IS 16197 (Part 3, Sec 1)
54	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Products of plastics, Resins,Rubbers,Glues	Chromium	IS 16197 (Part 3, Sec 1)
55	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Products of plastics, Resins,Rubbers,Glues	Lead	IS 16197 (Part 3, Sec 1)
56	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Products of plastics, Resins,Rubbers,Glues	Mercury	IS 16197 (Part 3, Sec 1)

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Laboratory Name : TCR ENGINEERING SERVICES PVT. LTD., VKB HOUSE, PLOT NO. EL 182, MIDC TTC, INDUSTRIAL AREA, ELECTRONIC ZONE, MAHAPE, NAVI 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
57	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Products of plastics, Resins,Rubbers,Glues,	Cadmium	IEC 62321-3-1
58	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Products of plastics, Resins,Rubbers,Glues,	Chromium	IEC 62321-3-1
59	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Products of plastics, Resins,Rubbers,Glues,	Lead	IEC 62321-3-1
60	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Products of plastics, Resins,Rubbers,Glues,	Mercury	IEC 62321-3-1
61	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for various computer parts	Bromine	IEC 62321-3-1
62	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for various computer parts	Cadmium	IEC 62321 -3-1
63	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for various computer parts	Cadmium	IS 16197 (Part 3: Sec 1)
64	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for various computer parts	Chromium	IEC 62321-3-1
65	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for various computer parts	Chromium	IS 16197 (Part 3, Sec 1)
66	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for various computer parts	Lead	IEC 62321-3-1
67	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for various computer parts	Lead	IS 16197 (Part 3-Sec 1)
68	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for various computer parts	Mercury	IEC 62321-3-1
69	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for various computer parts	Mercury	IS 16197 (Part 3, Sec 1)
70	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Boron	TCR-TM-ICP-03-Al Issue No. 1

SCOPE OF ACCREDITATION

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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
71	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Cadmium	TCR-TM-AAS-03-Al Issue No. 1
72	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Cadmium	TCR-TM-ICP-03-Al Issue No. 1
73	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	TCR-TM-AAS-03-Al Issue No. 1
74	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	TCR-TM-ICP-03-Al Issue No. 1
75	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E1251
76	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	TCR-TM-AAS-03-Al Issue No. 1
77	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	TCR-TM-ICP-03-Al Issue No. 1
78	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	TCR-TM-AAS-03-Al Issue No. 1
79	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E1251
80	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	TCR-TM-AAS-03-Al Issue No. 1
81	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	TCR-TM-ICP-03-Al Issue No. 1
82	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	TCR-TM-AAS-03-Al Issue No. 1
83	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	TCR-TM-ICP-03-Al Issue No. 1
84	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	TCR-TM-AAS-03-Al Issue No. 1
85	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	TCR-TM-ICP-03-Al Issue No. 1
86	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	TCR-TM-AAS-03-Al Issue No. 1
87	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	TCR-TM-ICP-03-Al Issue No. 1
88	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	IS 504 (Part 1)
89	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E1251

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Laboratory Name : TCR ENGINEERING SERVICES PVT. LTD., VKB HOUSE, PLOT NO. EL 182, MIDC TTC, INDUSTRIAL AREA, ELECTRONIC ZONE, MAHAPE, NAVI 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
90	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	TCR-TM-AAS-03-Al Issue No. 1
91	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	TCR-TM-ICP-03-Al Issue No. 1
92	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Vanadium	TCR-TM-AAS-03-Al Issue No. 1
93	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E1251
94	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	TCR-TM-AAS-03-Al Issue No. 1
95	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	TCR-TM-ICP-03-Al Issue No. 1
96	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zirconium	TCR-TM-ICP-03-Al Issue No. 1
97	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zirconium	TCR-TM-ICP-03-Al Issue No. 1
98	CHEMICAL- METALS & ALLOYS	Aluminum & its alloys	Iron	TCR-TM-ICP-03-Al Issue No. 1
99	CHEMICAL- METALS & ALLOYS	Aluminum & its alloys	Tin	TCR-TM-AAS-03-Al Issue No. 1
100	CHEMICAL- METALS & ALLOYS	Aluminum & its alloys	Tin	TCR-TM-ICP-03-Al Issue No. 1
101	CHEMICAL- METALS & ALLOYS	Aluminum & its alloys	Vanadium	TCR-TM-ICP-03-Al Issue No. 1
102	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Antimony	ASTM E1251
103	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Cadmium	ASTM E1251
104	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Chromium	ASTM E1251
105	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Iron	ASTM E1251
106	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Magnesium	ASTM E1251
107	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Manganese	ASTM E1251
108	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Nickel	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
109	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Silicon	ASTM E1251
110	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Titanium	ASTM E1251
111	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Zirconium	ASTM E1251
112	CHEMICAL- METALS & ALLOYS	Aluminum and its alloys	Zirconium	ASTM E1251
113	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Aluminium	ASTM E415
114	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Aluminium	IS 8811
115	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Antimony	ASTM E415
116	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Antimony	IS 8811
117	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Boron	ASTM E415
118	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Boron	IS 8811
119	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Carbon	ASTM E415
120	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Carbon	IS 8811
121	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Chromium	ASTM E415
122	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Chromium	IS 8811
123	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Cobalt	ASTM E415
124	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Cobalt	IS 8811
125	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Copper	ASTM E415
126	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Copper	IS 8811
127	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Lead	ASTM E415

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Laboratory Name : TCR ENGINEERING SERVICES PVT. LTD., VKB HOUSE, PLOT NO. EL 182, MIDC TTC, INDUSTRIAL AREA, ELECTRONIC ZONE, MAHAPE, NAVI 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
128	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Lead	IS 8811
129	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Manganese	ASTM E415
130	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Manganese	IS 8811
131	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Molybdenum	ASTM E415
132	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Molybdenum	IS 8811
133	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Nickel	ASTM E415
134	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Nickel	IS 8811
135	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Niobium	ASTM E415
136	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Niobium	IS 8811
137	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Nitrogen	ASTM E415
138	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Nitrogen	IS 8811
139	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Phosphorus	ASTM E415
140	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Phosphorus	IS 8811
141	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Silicon	ASTM E415
142	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Silicon	IS 8811
143	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Sulfur	ASTM E415
144	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Sulfur	IS 8811
145	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Tantalum	TCR/TM-03-OES Issue No. 2
146	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Tin	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
147	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Tin	IS 8811
148	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Titanium	ASTM E415
149	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Titanium	IS 8811
150	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Tungsten	ASTM E415
151	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Tungsten	IS 8811
152	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Vanadium	ASTM E415
153	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Vanadium	IS 8811
154	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Zirconium	ASTM E415
155	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Zirconium	IS 8811
156	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Aluminium	ASTM E350
157	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Chromium	ASTM E350
158	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Copper	ASTM E350
159	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Manganese	ASTM E350
160	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Nickel	ASTM E350
161	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Phosporus	ASTM E350
162	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Silicon	ASTM E350
163	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Vanadium	ASTM E350
164	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminum	ASTM E1999
165	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E1999

SCOPE OF ACCREDITATION

Laboratory Name : TCR ENGINEERING SERVICES PVT. LTD., VKB HOUSE, PLOT NO. EL 182, MIDC TTC, INDUSTRIAL AREA, ELECTRONIC ZONE, MAHAPE, NAVI 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
166	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E1999
167	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E1999
168	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E1999
169	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E1999
170	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E1999
171	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E1999
172	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999
173	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulfur	ASTM E1999
174	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	ASTM E1999
175	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	ASTM E1999
176	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	ASTM E1999
177	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	BS EN 15079
178	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminum	TCR-TM-AAS-02-Cu Issue No. 1
179	CHEMICAL- METALS & ALLOYS	Copper & Its alloys	Aluminum	TCR-TM-ICP-02-Cu Issue No. 1
180	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	BS EN 15079
181	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	TCR-TM-AAS-02-Cu Issue No. 1
182	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	TCR-TM-ICP-02-Cu Issue No. 1
183	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Arsenic	BS EN 15079
184	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Arsenic	TCR-TM-ICP-02-Cu Issue No. 1

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Laboratory Name : TCR ENGINEERING SERVICES PVT. LTD., VKB HOUSE, PLOT NO. EL 182, MIDC TTC, INDUSTRIAL AREA, ELECTRONIC ZONE, MAHAPE, NAVI MUMBAI, MAHARASHTRA, INDIA

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185	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Beryllium	BS EN 15079
186	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Beryllium	TCR-TM-AAS-02-Cu Issue No. 1
187	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Beryllium	TCR-TM-ICP-02-Cu Issue No. 1
188	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Bismuth	BS EN 15079
189	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Bismuth	TCR-TM-AAS-02-Cu Issue No. 1
190	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cadmium	BS EN 15079
191	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cadmium	TCR-TM-AAS-02-Cu Issue No. 1
192	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cadmium	TCR-TM-ICP-02-Cu Issue No. 1
193	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Carbon	ASTM E1019
194	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Chromium	BS EN 15079
195	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Chromium	TCR-TM-AAS-02-Cu Issue No. 1
196	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Chromium	TCR-TM-ICP-02-Cu Issue No. 1
197	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cobalt	BS EN 15079
198	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cobalt	TCR-TM-AAS-02-Cu Issue No. 1
199	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cobalt	TCR-TM-ICP-02-Cu Issue No. 1
200	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	IS 3685
201	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	IS 4027 (Part 1)
202	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	IS 440
203	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	BS EN 15079

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Laboratory Name : TCR ENGINEERING SERVICES PVT. LTD., VKB HOUSE, PLOT NO. EL 182, MIDC TTC, INDUSTRIAL AREA, ELECTRONIC ZONE, MAHAPE, NAVI MUMBAI, MAHARASHTRA, INDIA

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204	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	IS 3685
205	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	TCR-TM-AAS-02-Cu Issue No. 1
206	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	TCR-TM-ICP-02-Cu Issue No. 1
207	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	ASTM E478
208	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Lead	BS EN 15079
209	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	IS 3685
210	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	IS 4027 (Part 1)
211	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	TCR-TM-AAS-02-Cu Issue No. 1
212	CHEMICAL- METALS & ALLOYS	Copper & Its alloys	Lead	TCR-TM-ICP-02-Cu Issue No. 1
213	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	BS EN 15079
214	CHEMICAL- METALS & ALLOYS	copper & its alloys	Manganese	TCR-TM-AAS-02-Cu Issue No. 1
215	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	TCR-TM-ICP-02-Cu Issue No. 1
216	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Mercury	TCR-TM-ICP-02-Cu Issue No. 1
217	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	ASTM E478
218	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	BS EN 15079
219	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	TCR-TM-AAS-02-Cu Issue No. 1
220	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	TCR-TM-ICP-02-Cu Issue No. 1
221	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	BS EN 15079
222	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	IS 4027 (Part 3)

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223	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosporus	IS 3685
224	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Selenium	TCR-TM-AAS-02-Cu Issue No. 1
225	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Selenium	TCR-TM-ICP-02-Cu Issue No. 1
226	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	BS EN 15079
227	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	IS 4027 (Part 10)
228	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silver	BS EN 15079
229	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silver	TCR-TM-AAS-02-Cu Issue No. 1
230	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silver	TCR-TM-ICP-02-Cu Issue No. 1
231	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Sulfur	ASTM E1019
232	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Sulfur	BS EN 15079
233	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tellurium	TCR-TM-AAS-02-Cu Issue No. 1
234	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tellurium	TCR-TM-ICP-02-Cu Issue No. 1
235	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	ASTM E478
236	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	BS EN 15079
237	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	IS 4027
238	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	TCR-TM-AAS-02-Cu Issue No. 1
239	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	TCR-TM-ICP-02-Cu Issue No. 1
240	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	ASTM E478
241	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	BS EN 15079

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242	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	TCR-TM-AAS-02-Cu Issue No. 1
243	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	TCR-TM-ICP-02-Cu Issue No. 1
244	CHEMICAL- METALS & ALLOYS	identification Metallic material by portable XRF analyzer	Chromium	ASTM E1476(Qualitative)
245	CHEMICAL- METALS & ALLOYS	identification Metallic material by portable XRF analyzer	Cobalt	ASTM E1476 (Qualitative)
246	CHEMICAL- METALS & ALLOYS	identification Metallic material by portable XRF analyzer	Iron	ASTM E1476(Qualitative)
247	CHEMICAL- METALS & ALLOYS	identification Metallic material by portable XRF analyzer	Tin	ASTM E1476(Qualitative)
248	CHEMICAL- METALS & ALLOYS	identification Metallic material by portable XRF analyzer	Titanium	ASTM E1476(Qualitative)
249	CHEMICAL- METALS & ALLOYS	identification Metallic material by portable XRF analyzer	Tungsten	ASTM E1476(Qualitative)
250	CHEMICAL- METALS & ALLOYS	identification Metallic material by portable XRF analyzer	Vanadium	ASTM E1476(Qualitative)
251	CHEMICAL- METALS & ALLOYS	identification Metallic material by portable XRF analyzer	Zinc	ASTM E1476(Qualitative)
252	CHEMICAL- METALS & ALLOYS	identification of Metallic material by portable XRF analyzer	Copper	ASTM E1476(Qualitative)
253	CHEMICAL- METALS & ALLOYS	identification of Metallic material by portable XRF analyzer	Lead	ASTM E1476(Qualitative)
254	CHEMICAL- METALS & ALLOYS	identification of Metallic material by portable XRF analyzer	Manganese	ASTM E1476 (Qualitative)
255	CHEMICAL- METALS & ALLOYS	identification of Metallic material by portable XRF analyzer	Molybdenum	ASTM E1476
256	CHEMICAL- METALS & ALLOYS	identification of Metallic material by portable XRF analyzer	Nickel	ASTM E1476(Qualitative)
257	CHEMICAL- METALS & ALLOYS	identification of Metallic material by portable XRF analyzer	Niobium	ASTM E1476(Qualitative)
258	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Aluminum	TCR-TM-AAS-01-Fe Issue No. 1
259	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Aluminum	TCR-TM-ICP-01-Fe Issue No. 1
260	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Arsenic	TCR-TM-ICP-01-Fe Issue No. 1

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261	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Boron	TCR-TM-ICP-01-Fe Issue No. 1
262	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Chromium	TCR-TM-AAS-01-Fe Issue No. 1
263	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Chromium	TCR-TM-ICP-01-Fe Issue No. 1
264	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Cobalt	TCR-TM-AAS-01-Fe Issue No.1
265	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Cobalt	TCR-TM-ICP-01-Fe Issue No. 1
266	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Copper	TCR-TM-AAS-01-Fe Issue No. 1
267	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Copper	TCR-TM-ICP-01-Fe Issue No. 1
268	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Lead	TCR-TM-AAS-01-Fe Issue No. 1
269	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Lead	TCR-TM-ICP-01-Fe Issue No. 1
270	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Magesium	TCR-TM-ICP-01-Fe Issue No. 1
271	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Magnesium	TCR-TM-AAS-01-Fe Issue No. 1
272	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Manganese	TCR-TM-AAS-01-Fe Issue No. 1
273	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Manganese	TCR-TM-ICP-01-Fe Issue No. 1
274	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Molybdenum	TCR-TM-AAS-01-Fe Issue No. 1
275	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Molybdenum	TCR-TM-ICP-01-Fe Issue No. 1
276	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Nickel	TCR-TM-AAS-01-Fe Issue No. 1
277	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Nickel	TCR-TM-ICP-01-Fe Issue No.1
278	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Niobium	TCR-TM-ICP-01-Fe Issue No. 1
279	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Tantalum	TCR-TM-ICP-01-Fe Issue No. 1

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280	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Tin	TCR-TM-AAS-01-Fe Issue No. 1
281	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Tin	TCR-TM-ICP-01-Fe Issue No. 1
282	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Titanium	TCR-TM-AAS-01-Fe Issue No. 1
283	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Titanium	TCR-TM-ICP-01-Fe Issue No. 1
284	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Tungsten	TCR-TM-ICP-01-Fe Issue No. 1
285	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Vanadium	TCR-TM-AAS-01-Fe Issue No. 1
286	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Vanadium	TCR-TM-ICP-01-Fe Issue No. 1
287	CHEMICAL- METALS & ALLOYS	Iron base & its alloys	Zirconium	TCR-TM-ICP-01-Fe Issue No. 1
288	CHEMICAL- METALS & ALLOYS	Iron base & its alloys (Stainless steel, carbon & alloy steel,tool steel, cast iron & Other Similar Chromium-Nickel-Iron Alloys)	Carbon	ASTM E1019
289	CHEMICAL- METALS & ALLOYS	Iron base & its alloys (Stainless steel, carbon & alloy steel,tool steel, cast iron & Other Similar Chromium-Nickel-Iron Alloys)	Chromium	IS 228 (Part 06)
290	CHEMICAL- METALS & ALLOYS	Iron base & its alloys (Stainless steel, carbon & alloy steel,tool steel, cast iron & Other Similar Chromium-Nickel-Iron Alloys)	Chromium	TCR/TM-06-(Cr-WET) Issue No. 1
291	CHEMICAL- METALS & ALLOYS	Iron base & its alloys (Stainless steel, carbon & alloy steel,tool steel, cast iron & Other Similar Chromium-Nickel-Iron Alloys)	Manganese	IS 228 (Part 02)
292	CHEMICAL- METALS & ALLOYS	Iron base & its alloys (Stainless steel, carbon & alloy steel,tool steel, cast iron & Other Similar Chromium-Nickel-Iron Alloys)	Nickel	IS 228 (Part 05)
293	CHEMICAL- METALS & ALLOYS	Iron base & its alloys (Stainless steel, carbon & alloy steel,tool steel, cast iron & Other Similar Chromium-Nickel-Iron Alloys)	Nitrogen	IS 228 (Part 19)
294	CHEMICAL- METALS & ALLOYS	Iron base & its alloys (Stainless steel, carbon & alloy steel,tool steel, cast iron & Other Similar Chromium-Nickel-Iron Alloys)	Phosphorus	IS 228 (Part 03)
295	CHEMICAL- METALS & ALLOYS	Iron base & its alloys (Stainless steel, carbon & alloy steel,tool steel, cast iron & Other Similar Chromium-Nickel-Iron Alloys)	Silicon	IS 228 (Part 08)

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296	CHEMICAL- METALS & ALLOYS	Iron base & its alloys (Stainless steel, carbon & alloy steel,tool steel, cast iron & Other Similar Chromium-Nickel-Iron Alloys)	Sulfur	ASTM E1019
297	CHEMICAL- METALS & ALLOYS	Iron base & its alloys (Stainless steel, carbon & alloy steel,tool steel, cast iron & Other Similar Chromium-Nickel-Iron Alloys)	Tungsten	IS 228 (Part 16)
298	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminium	TCR/TM-03-OES Issue No. 2
299	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminum	ASTM E3047
300	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminum	ASTM E354
301	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminum	TCR-TM-AAS-04-Ni Issue No. 1
302	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminum	TCR-TM-ICP-04-Ni Issue No. 1
303	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Boron	ASTM E3047
304	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Boron	TCR-TM-ICP-04-Ni Issue No. 1
305	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Boron	TCR/TM-03-OES Issue No. 2
306	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Carbon	ASTM E1019
307	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Carbon	ASTM E3047
308	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Carbon	TCR/TM-03-OES Issue No. 2
309	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	ASTM E3047
310	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	ASTM E354
311	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	TCR-TM-AAS-04-Ni Issue No. 1
312	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	TCR-TM-ICP-04-Ni Issue No. 1
313	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	TCR/TM-03-OES Issue No. 2

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314	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt	ASTM E3047
315	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt	TCR-TM-AAS-04-Ni Issue No. 1
316	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt	TCR-TM-ICP-04-Ni Issue No. 1
317	CHEMICAL- METALS & ALLOYS	Nickel & Its alloys	Cobalt	TCR/TM-03-OES Issue No. 2
318	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper	ASTM E3047
319	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper	ASTM E354
320	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper	TCR-TM-AAS-04-Ni Issue No. 1
321	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper	TCR-TM-ICP-04-Ni Issue No. 1
322	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper	TCR/TM-03-OES Issue No. 2
323	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron	ASTM E3047
324	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron	TCR-TM-AAS-04-Ni Issue No. 1
325	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron	TCR-TM-ICP-04-Ni Issue No. 1
326	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron	TCR/TM-03-OES Issue No. 2
327	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Lead	TCR-TM-AAS-04-Ni Issue No. 1
328	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Lead	TCR-TM-ICP-04-Ni Issue No. 1
329	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	ASTM E3047
330	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	TCR-TM-AAS-04-Ni Issue No. 1
331	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	TCR-TM-ICP-04-Ni Issue No. 1
332	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	TCR/TM-03-OES Issue No. 2

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333	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	ASTM E3047
334	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	ASTM E354
335	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	TCR-TM-AAS-04-Ni Issue No. 1
336	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	TCR-TM-ICP-04-Ni Issue No. 1
337	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	TCR/TM-03-OES Issue No. 2
338	CHEMICAL- METALS & ALLOYS	Nickel & Its alloys	Nickel	ASTM E354
339	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Niobium	ASTM E3047
340	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Niobium	TCR-TM-ICP-04-Ni, Issue No. 1
341	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Niobium	TCR/TM-03-OES Issue No. 2
342	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Nitrogen	TCR-TM-04-N2 Issue No. 2
343	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Phosphorus	ASTM E3047
344	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Phosphorus	ASTM E354
345	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Phosphorus	TCR/TM-03-OES Issue No. 2
346	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon	ASTM E3047
347	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon	ASTM E354
348	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon	TCR/TM-03-OES Issue No. 2
349	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Sulfur	ASTM E1019
350	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Sulfur	ASTM E3047
351	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Sulfur	TCR/TM-03-OES Issue No. 2

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352	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tantalum	ASTM E3047
353	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tantalum	TCR-TM-ICP-04-Ni Issue No. 1
354	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tantalum	TCR/TM-03-OES Issue No. 2
355	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	ASTM E3047
356	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	TCR-TM-AAS-04-Ni Issue No. 1
357	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	TCR-TM-ICP-04-Ni Issue No. 1
358	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	TCR/TM-03-OES Issue No. 2
359	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tungsten	ASTM E3047
360	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tungsten	TCR-TM-ICP-04-Ni Issue No. 1
361	CHEMICAL- METALS & ALLOYS	Nickel & Its alloys	Tungsten	TCR/TM-03-OES Issue No. 2
362	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Vanadium	ASTM E3047
363	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Vanadium	TCR-TM-AAS-04-Ni Issue No. 1
364	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Vanadium	TCR/TM-03-OES Issue No. 2
365	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	ASTM E1086
366	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	TCR/TM-03-OES Issue No. 2
367	CHEMICAL- METALS & ALLOYS	Stainless Steel	Antimony	TCR/TM-03-OES Issue No. 2
368	CHEMICAL- METALS & ALLOYS	Stainless Steel	Boron	TCR/TM-03-OES Issue No. 2
369	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
370	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879

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371	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	TCR/TM-03-OES Issue No. 2
372	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
373	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
374	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	TCR/TM-03-OES Issue No. 2
375	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	TCR/TM-03-OES Issue No. 2
376	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086
377	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
378	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	TCR/TM-03-OES Issue No. 2
379	CHEMICAL- METALS & ALLOYS	Stainless Steel	Lead	TCR/TM-03-OES Issue No. 2
380	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
381	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
382	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	TCR/TM-03-OES Issue No. 2
383	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
384	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
385	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	TCR/TM-03-OES Issue No. 2
386	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
387	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
388	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	TCR/TM-03-OES Issue No. 2
389	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	TCR/TM-03-OES Issue No. 2

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390	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	TCR/TM-03-OES Issue No. 2
391	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086
392	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879
393	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	TCR/TM-03-OES Issue No. 2
394	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
395	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
396	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	TCR/TM-03-OES Issue No. 2
397	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulfur	ASTM E1086
398	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulfur	IS 9879
399	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulfur	TCR/TM-03-OES Issue No. 2
400	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tantalum	ASTM E1086
401	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tantalum	TCR/TM-03-OES Issue No. 2
402	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tin	TCR/TM-03-OES Issue No. 2
403	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	TCR/TM-03-OES Issue No. 2
404	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tungsten	TCR/TM-03-OES Issue No. 2
405	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	TCR/TM-03-OES Issue No. 2
406	CHEMICAL- METALS & ALLOYS	Stainless, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel-Iron Alloys	Chromium	ASTM E353
407	CHEMICAL- METALS & ALLOYS	Stainless, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel-Iron Alloys	Nickel	ASTM E353
408	CHEMICAL- METALS & ALLOYS	Stainless, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel-Iron Alloys	Phosphorus	ASTM E353

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409	CHEMICAL- METALS & ALLOYS	Stainless, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel-Iron Alloys	Silicon	ASTM E353
410	CHEMICAL- METALS & ALLOYS	Titanium & Titanium Alloys	Aluminium	ASTM E2994
411	CHEMICAL- METALS & ALLOYS	Titanium & Titanium Alloys	Carbon	ASTM E2994
412	CHEMICAL- METALS & ALLOYS	Titanium & Titanium Alloys	Iron	ASTM E2994
413	CHEMICAL- METALS & ALLOYS	Titanium & Titanium Alloys	Silicon	ASTM E2994
414	CHEMICAL- METALS & ALLOYS	Titanium & Titanium Alloys	Vanadium	ASTM E2994
415	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	TCR/TM-03-OES Issue No. 2
416	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	TCR/TM-03-OES Issue No. 2
417	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	TCR/TM-03-OES Issue No. 2
418	CHEMICAL- METALS & ALLOYS	Tool Steel	Copper	TCR/TM-03-OES Issue No. 2
419	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	TCR/TM-03-OES Issue No. 2
420	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	TCR/TM-03-OES Issue No. 2
421	CHEMICAL- METALS & ALLOYS	Tool Steel	Nickel	TCR/TM-03-OES Issue No. 2
422	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	TCR/TM-03-OES Issue No. 2
423	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	TCR/TM-03-OES Issue No. 2
424	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulfur	TCR/TM-03-OES Issue No. 2
425	CHEMICAL- METALS & ALLOYS	Tool Steel	Titanium	TCR/TM-03-OES Issue No. 2
426	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	TCR/TM-03-OES Issue No. 2
427	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	TCR/TM-03-OES Issue No. 2

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428	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Aluminium	ASTM E536
429	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Cadmium	ASTM E536
430	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Copper	ASTM E536
431	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Iron	ASTM E536
432	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Lead	ASTM E536
433	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Magnesium	ASTM E536
434	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum and Aluminum Alloys	Fracture Toughness Test a) K1C	ASTM B645
435	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum and Aluminum Alloy Products	Elevated Temperature Tensile Test. (50 deg. C to 300 deg. C) % Elongation	BS EN 10002 (Part 5)
436	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum and Aluminum Alloy Products	Elevated Temperature Tensile Test. (50 deg. C to 300 deg. C) Yield Stress, 0.2% to 1.0% Proof Stress, 0.5%EUL	ASTM E21
437	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum and Aluminum Alloy Products	Elevated Temperature Tensile Test. (50 deg. C to 300 deg. C) % Elongation	ASTM E21
438	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum and Aluminum Alloy Products	Elevated Temperature Tensile Test. (50 deg. C to 300 deg. C) % Elongation	ISO 6892 (Part 2)
439	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum and Aluminum Alloy Products	Elevated Temperature Tensile Test. (50 deg. C to 300 deg. C) % Reduction in area	ASTM E21
440	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum and Aluminum Alloy Products	Elevated Temperature Tensile Test. (50 deg. C to 300 deg. C) % Reduction in area	BS EN 10002 (Part 5)
441	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum and Aluminum Alloy Products	Elevated Temperature Tensile Test. (50 deg. C to 300 deg. C) % Reduction in area	ISO 6892 (Part 2)
442	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum and Aluminum Alloy Products	Elevated Temperature Tensile Test. (50 deg. C to 300 deg. C) Ultimate Tensile Strength	ASTM E21

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443	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum and Aluminum Alloy Products	Elevated Temperature Tensile Test. (50 deg. C to 300 deg. C) Ultimate Tensile Strength	BS EN 10002 (Part 5)
444	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum and Aluminum Alloy Products	Elevated Temperature Tensile Test. (50 deg. C to 300 deg. C) Ultimate Tensile Strength	ISO 6892 (Part 2)
445	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum and Aluminum Alloy Products	Elevated Temperature Tensile Test. (50 deg. C to 300 deg. C) Yield Stress, 0.2% to 1.0% Proof Stress, 0.5%EUL	BS EN 10002 (Part 5)
446	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and Alloy Steel	Flaring Test	IS 2335
447	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and Alloy Steel	Proof Load Test (Nuts)	IS 1367 (Part 6)
448	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and Alloy Steel	Running performance test	IS 814
449	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon steel and alloy steel (Bolts, screws and studs)	% Elongation	ISO 898 (Part 1)
450	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon steel and alloy steel (Bolts, screws and studs)	Ultimate Tensile Strength	ISO 898 (Part 1)
451	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and Bolts, Screws and Studs	Proof Load Test (Bolts, Studs & Screws)	IS 1367 (Part 3)
452	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Cast Aluminum- and Magnesium-Alloy Products	Yield Stress, 0.2% to 1.0% Proof Stress, 0.5%EUL	ASTM B557
453	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Covered electrode	Diffusible hydrogen content (mercury method)	IS 11802
454	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Electrode Remelted Steel Bars and Billets	Macro etch Test	ASTM A604/A604M
455	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners	Proof Load Test (Nuts)	ISO 898 (Part 2)

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456	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FastenersCarbon steel and alloy steel (Bolts, screws and studs)	Proof Load Test (Bolts, Studs & Screws)	ISO 898 (Part 1)
457	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low and Medium alloy Steel covered electrodes	Moisture Content Test	IS 1395
458	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mechanical Splices for Steel Reinforcing Bars	Axial Force Fatigue Test	ASTM A1034/A1034M
459	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mechanical Splices for Steel Reinforcing Bars	Cyclic Tensile Test	ASTM A1034/A1034M
460	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mechanical Splices for Steel Reinforcing Bars	High Cycle Fatigue Test	ASTM A1034/A1034M
461	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mechanical Splices for Steel Reinforcing Bars	Slip Test	ASTM A1034/A1034M
462	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mechanical Splices for Steel Reinforcing Bars	Static Tensile Test a) UTS	ASTM A1034 / A1034M
463	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mechanical Splices for Steel Reinforcing Bars	Static Tensile Test b) %EL at Max. Force	ASTM A1034 / A1034M
464	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Bend Test	AWS B4.0
465	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Charpy Impact Test (+80 deg. C to -101 deg. C & -196 deg. C)	AWS B4.0
466	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Fillet Weld Break Tests	AWS B4.0
467	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Fracture Toughness Test a) K1c	ASTM E1820
468	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Fracture Toughness Test b) CTOD	ASTM E1820
469	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Fracture Toughness Test b) CTOD	ASTM E1820

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470	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Izod Impact Test	BS 131-1
471	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Izod Impact Test	BS 131-1
472	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Nick-Break Test	AWS B4.0
473	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Tensile Test	AWS B4.0
474	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Flattening Test	IS 2501
475	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Stress Rupture Test a) % Elongation	ASTM E139
476	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction in area	ASTM E8/E8M
477	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	% Elongation	ASTM E8/E8M
478	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	IS 1608 (Part 1)
479	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	ISO 6892-1
480	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	ASTM E290
481	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	BS EN 910
482	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	ISO 5173
483	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	ASTM E10

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484	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	ASTM E10
485	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	ASTM E10
486	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	IS 1500 (Part 1)
487	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	IS 1500 (Part 1)
488	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	IS 1500 (Part 1)
489	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	IS 1500 (Part 2)
490	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	IS 1500 (Part 2)
491	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	IS 1500 (Part 2)
492	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	ISO 6506 (Part 1)
493	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	ISO 6506 (Part 1)
494	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	ISO 6506 (Part 1)
495	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test (+80 deg. C to -101 deg. C & -196 deg. C)	ASTM E23
496	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test (+80 deg. C to -101 deg. C & -196 deg. C)	IS 1757 (Part 1)
497	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test (+80 deg. C to -101 deg. C & -196 deg. C)	BS EN 10045 (Part 1)

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498	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test (+80 deg. C to -101 deg. C & -196 deg. C)	IS 1757 (Part 1)
499	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test (+80 deg. C to -101 deg. C & -196 deg. C)	ISO 148 (Part 1)
500	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Creep Rupture Test b) % Elongation	ISO 204
501	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Creep test / Creep Rupture test a) Creep rate	ASTM E139
502	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Creep test / Creep Rupture test a) Creep rate	ASTM E139
503	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Creep test / Creep Rupture test b) % Elongation	ASTM E139
504	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Elevated Temperature Tensile Test. (50 deg. C to 1100 deg. C) % Elongation	BS EN 10002 (Part 5)
505	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elevated Temperature Tensile Test. (50 deg. C to 1100 deg. C) Ultimate Tensile Strength	BS EN 10002 (Part 5)
506	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elevated Temperature Tensile Test. (50 deg. C to 1100 deg. C) Yield Stress, 0.2% to 1.0% Proof Stress, 0.5%EUL	ASTM E21
507	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Elevated Temperature Tensile Test. (50 deg. C to 1100 deg. C) Yield Stress, 0.2% to 1.0% Proof Stress, 0.5%EUL	BS EN 10002 (Part 5)
508	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elevated Temperature Tensile Test. (50 deg. C to 1100 deg. C) Yield Stress, 0.2% to 1.0% Proof Stress, 0.5%EUL	ISO 6892 (Part 2)
509	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elevated Temperature Tensile Test. (50 deg. C to 1100 deg. C) Yield Stress, 0.2% to 1.0% Proof Stress, 0.5%EUL	ASTM E21

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510	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elevated Temperature Tensile Test. (50 deg. C to 1100 deg. C) Yield Stress, 0.2% to 1.0% Proof Stress, 0.5%EUL	BS EN 10002 (Part 5)
511	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elevated Temperature Tensile Test. (50 deg. C to 1100 deg. C)Yield Stress, 0.2% to 1.0% Proof Stress, 0.5%EUL	ISO 6892 (Part 2)
512	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elevated Temperature Tensile Test. (50 deg. C to 500 deg. C) Yield Stress, 0.2% to 1.0% Proof Stress, 0.5%EUL	BS EN 10002 (Part 5)
513	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elevated Temperature Tensile Test. (50 deg. C to 500 deg. C) Yield Stress, 0.2% to 1.0% Proof Stress, 0.5%EUL	ASTM E21
514	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elevated Temperature Tensile Test. (50 deg. C to 500 deg. C) % Elongation	ASTM E21
515	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Elevated Temperature Tensile Test. (50 deg. C to 500 deg. C) % Reduction in area	ASTM E21
516	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elevated Temperature Tensile Test. (50 deg. C to 500 deg. C) Ultimate Tensile Strength	ISO 6892 (Part 2)
517	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elevated Temperature Tensile Test. (50 deg. C to 500 deg. C) Yield Stress, 0.2% to 1.0% Proof Stress, 0.5%EUL	ISO 6892 (Part 2)
518	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Elevated Temperature Tensile Test. (80 deg. C to 1100 deg. C) % Elongation	BS EN 10002 (Part 5)
519	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Flaring Test	ASTM B153
520	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Flattening Test	ASTM B111
521	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Flattening Test	ASTM B968

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522	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Flattening Test	IS 2328
523	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Flattening Test	IS 2501
524	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Flattening Test	IS 3589
525	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) CTOD	ASTM E1290
526	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) CTOD	ASTM E1290
527	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) CTOD	BS 7448 (Part 1)
528	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) CTOD	BS 7448 (Part 2)
529	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) CTOD	BS 7448 (Part 4)
530	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) CTOD	BS 7448 (Part 4)
531	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) CTOD	BS 8571
532	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) CTOD	BS 8571
533	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) CTOD	ISO 12135
534	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) CTOD	ISO 12135
535	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) CTOD	ISO 15653

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536	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) FCGR	ASTM E647
537	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) FCGR	ISO 12108
538	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) FCGR	ISO 12108
539	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) k1C	ASTM E1820
540	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) K1C	ASTM E399
541	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) K1C	BS 7448 (Part 3)
542	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Fracture Toughness Test a) K1c	ISO 12737
543	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) K1C	ASTM E399
544	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) K1C	BS 7448 (Part 3)
545	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test b) CTOD	ASTM E1820
546	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test b) CTOD	BS 7448 (Part 3)
547	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test b) J	BS 8571
548	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test b) J	BS 8571
549	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test b) K1C	BS 7448 (Part 1)

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550	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test b) K1C	BS 7448 (Part 2)
551	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test b) K1C	BS 7448 (Part 4)
552	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test b) K1C	BS 7448 (Part 4)
553	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test b) K1C	ISO 12135
554	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test b) K1C	ISO 12135
555	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test b) K1C	ISO 15653
556	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test c) J Value	BS 7448 (Part 1)
557	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test c) J Value	BS 7448 (Part 1)
558	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test c) J1C	ASTM E1820
559	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test c) J1C	BS 7448 (Part 2)
560	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test c) J1C	BS 7448 (Part 3)
561	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test c) J1c	BS 7448 (Part 4)
562	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test c) J1C	BS 7448 (Part 4)
563	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test c) J1C	ISO 12135

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564	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test c) J1C	ISO 15653
565	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test c) J1c	BS 7448 (Part 3)
566	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hydrogen Embrittlement Susceptibility Test	ASTM B577
567	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hydrogen Embrittlement Susceptibility Test	IS 6243
568	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hydrogen Embrittlement Test	ASTM F519
569	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Izod Impact Test	ASTM E23
570	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Izod Impact Test	IS 1598
571	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Macro etch Test	ASTM E340
572	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Macro etch Test	ISO 17639
573	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Macro-Examination a) Leak Path	ASME BPVC.IX
574	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Macro-Examination a) Leak Path	ASME Section VIII
575	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Macro-Examination a) Leg Lengths	API 1104
576	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Macro-Examination a) Leg Lengths	ASME BPVC.IX
577	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Macro-Examination a) Leg Lengths	ASME Section VIII

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578	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Macro-Examination a) Leg Lengths	AWS D 1.1
579	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Macro-Examination a) Throat Length	ASME BPVC.IX
580	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Macro-Examination a) Throat Length	ASME Section VIII
581	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Macro-Examination a) Throat Length	AWS D 1.1
582	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Pneumatic Pressure Test (3.18 mm to 60.33 mm OD)	ASTM B111
583	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Pneumatic Pressure Test (3.18 mm to 60.33 mm OD)	ASTM B75
584	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Pneumatic Pressure Test (3.18 mm to 60.33 mm OD)	IS 2501
585	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test	ASTM E18
586	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test	ASTM E18
587	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test	IS 1586 (Part 1)
588	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test	IS 1586 (Part 1)
589	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test	ISO 6508 (Part 1)
590	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test	ISO 6508 (Part 1)
591	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Stress Rupture Test a) % Elongation	ASTM E139

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592	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Stress Rupture Test b) % Reduction in area	ASTM E139
593	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Time-for-Rupture Notch Tension Tests a) %Elongation	ASTM E292
594	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Time-for-Rupture Notch Tension Tests b) % Reduction in area	ASTM E292
595	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	ASTM E8/E8M
596	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	IS 1608 (Part 1)
597	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	ASTM E92
598	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	ASTM E92
599	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	ASTM E92
600	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	ASTM E92
601	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	AWS B4.0
602	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	AWS B4.0
603	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	BS EN 1043 (Part 1)
604	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	BS EN 1043 (Part 1)
605	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	IS 1501 (Part 1)

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606	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	IS 1501 (Part 1)
607	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	IS 1501 (Part 1)
608	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	ISO 6507 (Part 1)
609	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	ISO 6507 (Part 1)
610	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	ISO 6507 (Part 1)
611	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	ISO 9015 (Part 1)
612	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	ISO 9015 (Part 1)
613	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro In dentation)	AWS B4.0
614	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro In dentation)	BS EN 1043 (Part 2)
615	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ASTM E384
616	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ASTM E384
617	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ASTM E384
618	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ASTM E384
619	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ASTM E384

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620	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	AWS B4.0
621	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	AWS B4.0
622	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	AWS B4.0
623	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	BS EN 1043 (Part 2)
624	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	BS EN 1043 (Part 2)
625	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	BS EN 1043 (Part 2)
626	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	BS EN 1043 (Part 2)
627	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	IS 1501 (Part 1)
628	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	IS 1501 (Part 1)
629	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	IS 1501 (Part 1)
630	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	IS 1501 (Part 1)
631	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	IS 1501 (Part 1)
632	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	IS 1501 (Part 1)
633	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ISO 6507 (Part 1)

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634	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ISO 6507 (Part 1)
635	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ISO 6507 (Part 1)
636	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ISO 6507 (Part 1)
637	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ISO 6507 (Part 1)
638	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ISO 9015 (Part 2)
639	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ISO 9015 (Part 2)
640	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ISO 9015 (Part 2)
641	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ISO 9015 (Part 2)
642	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ISO 9015 (Part 2)
643	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress, 0.2% to 1.0% Proof Stress, 0.5%EUL	ASTM E8 / E8M
644	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress, 0.2% to 1.0% Proof Stress, 0.5%EUL	BS EN 10002 (Part 1)
645	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress, 0.2% to 1.0% Proof Stress, 0.5%EUL	IS 1608 (Part 1)
646	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress, 0.2% to 1.0% Proof Stress, 0.5%EUL	IS 1608 (Part 1)
647	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress, 0.2% to 1.0% Proof Stress, 0.5%EUL	ISO 6892 (Part 1)

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648	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress, 0.2% to 1.0% Proof Stress, 0.5%EUL	ISO 6892-1
649	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction in area	ASTM A370
650	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction in area	ASTM B557
651	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction in area	ASTM E8/E8M
652	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction in area	BS EN 10002 (Part 1)
653	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction in area	IS 1608 (Part 1)
654	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	API 1104
655	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	ASME Section IX
656	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	ASTM A370
657	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	ASTM E8/E8M
658	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	AWS D 1.1
659	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	BS EN 10002 (Part 1)
660	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	BS EN 895
661	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	BS EN ISO 4136

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662	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	IS 1608 (Part 1)
663	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	ISO 6892 (Part 1)
664	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	ISO 898 (Part 1)
665	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Axial Force Fatigue Test	IS 5074
666	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	API 1104
667	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	ASME SEction IX
668	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	ASTM E190
669	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	ASTM E290
670	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	AWS D 1.1
671	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	IS 1599
672	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	IS 3589
673	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	ISO 7438
674	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness test	ASTM E10
675	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	ASTM E10

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676	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	ASTM E10
677	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	ASTM E10
678	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	IS 1500 (Part 1)
679	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	IS 1500 (Part 1)
680	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	IS 1500 (Part 1)
681	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	ISO 6506 (Part 1)
682	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	ISO 6506 (Part 1)
683	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test	ISO 6506 (Part 1)
684	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test (+80 deg. C to -101 deg. C & -196 deg. C)	ASTM E23
685	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test (+80 deg. C to -101 deg. C & -196 deg. C)	BS EN 10045
686	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test (+80 deg. C to -101 deg. C & -196 deg. C)	BS EN 10045 (Part 1)
687	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test (+80 deg. C to -101 deg. C & -196 deg. C)	BS EN 875
688	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test (+80 deg. C to -101 deg. C & -196 deg. C)	IS 1757 (Part 1)
689	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test (+80 deg. C to -101 deg. C & -196 deg. C)	ISO 148 (Part 1)

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690	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test (+80 deg. C to -101 deg. C & -196 deg. C)	ISO 9016
691	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Creep Rupture Test a) Creep rate	ISO 204
692	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Creep Rupture Test a) Creep rate	ISO 204
693	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Creep Rupture Test a) Creep rate	ISO 204
694	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Creep test / Creep Rupture test a) Creep rate	ASTM E139
695	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Elevated Temperature Tensile Test. (80 deg. C to 1100 deg. C) % Reduction in area	ASTM E21
696	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elevated Temperature Tensile Test. (80 deg. C to 1100 deg. C) % Reduction in area	BS EN 10002 (Part 5)
697	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elevated Temperature Tensile Test. (80 deg. C to 1100 deg. C) % Reduction in area	ISO 6892 (Part 2)
698	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Elevated Temperature Tensile Test. (80 deg. C to 500 deg. C) % Reduction in area	BS EN 10002 (Part 5)
699	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Elevated Temperature Tensile Test. (80 deg. C to 500 deg. C) % Reduction in area	ISO 6892 (Part 2)
700	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Elevated Temperature Tensile Test. (80 deg. C to 1100 deg. C) Ultimate tensile strength	ASTM E21
701	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elevated Temperature Tensile Test. (80 deg. C to 1100 deg. C) % Elongation	ASTM E21
702	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Elevated Temperature Tensile Test. (80 deg. C to 1100 deg. C) % Elongation	BS EN 10002 (Part 5)
703	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elevated Temperature Tensile Test. (80 deg. C to 1100 deg. C) % Elongation	ISO 6892 (Part 2)

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704	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elevated Temperature Tensile Test. (80 deg. C to 1100 deg. C) Ultimate Tensile Strength	ASTM E21
705	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Elevated Temperature Tensile Test. (80 deg. C to 1100 deg. C) Ultimate Tensile Strength	ISO 6892 (Part 2)
706	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Elevated Temperature Tensile Test. (80 deg. C to 1100 deg. C) Ultimate Tensile Strength test	BS EN 10002 (Part 5)
707	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Elevated Temperature Tensile Test. (80 deg. C to 500 deg. C) Ultimate Tensile Strength	ASTM E21
708	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Elevated Temperature Tensile Test. (80 deg. C to 500 deg. C) % Elongation	BS EN 10002 (Part 5)
709	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Elevated Temperature Tensile Test. (80 deg. C to 500 deg. C) Ultimate Tensile Strength	BS EN 10002(Part 5)
710	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Elevated Temperature Tensile Test. (80 deg. C to 500 deg. C) % Elongation	ISO 6892 (Part 2)
711	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Erichsen Cupping Test	IS 10175 (Part 1)
712	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Erichsen Cupping Test	IS 10175 (Part 1)
713	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Erichsen Cupping Test	IS 10175 (Part 1)
714	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Flaring Test	IS 2335
715	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Flaring Test	IS 2501
716	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Flaring Test	IS 2335

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717	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Flattening Test	IS 2501
718	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Force Controlled Constant Amplitude Axial Fatigue Tests	ASTM E466
719	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Test	ASME Section IX
720	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Test	ASME Section VIII
721	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Test	AWS D 1.1
722	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) CTOD	ASTM E1290
723	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) CTOD	ISO 12135
724	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test b) K1C	ISO 12135
725	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test c) J1C	ASTM E1820
726	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test c) J1C	ISO 12135
727	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) FCGR	ASTM E647
728	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) FCGR	ISO 12108
729	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Fracture Toughness Test a) K1C	ASTM E399
730	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hydrostatic Leak Test (6 mm to 168.3 mm OD)	ASTM E1003

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731	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hydrostatic Leak Test (6 mm to 168.3 mm OD)	ASTM E1003
732	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hydrostatic Pressure Test (6 mm to 168.3 mm OD)	ASTM A450
733	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hydrostatic Pressure Test (6 mm to 168.3 mm OD)	ASTM A530
734	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hydrostatic Pressure Test (6 mm to 168.3 mm OD)	ASTM A999
735	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hydrostatic Pressure Test (6 mm to 168.3 mm OD)	ASTM B111
736	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hydrostatic Pressure Test (6 mm to 168.3 mm OD)	ASTM B75
737	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hydrostatic Pressure Test (6 mm to 168.3 mm OD)	ASTM E1003
738	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hydrostatic Pressure Test (6 mm to 168.3 mm OD)	is 2501
739	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Izod Impact Test	ASTM E23
740	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Izod Impact Test	IS 1598
741	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Macro etch Test	ASME Section IX
742	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Macro etch Test	ASTM E381
743	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Macro Examination Test a)Metal Expansion	ASME Section IX
744	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Macro-Examination a) Metal Expansion	ASME Section VIII

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745	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Mercurous Nitrate Test	ASTM B154
746	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Mercurous Nitrate Test	IS 2305
747	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Nick Break Test	API 1104
748	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Peel Test	ASME Section IX
749	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Peel Test	ASME Section VIII
750	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test	ASTM E18
751	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test	ASTM E18
752	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Shear Load (Pull-out) Test	ASME Section IX
753	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Shear Load (Pull-out) Test	ASME Section VIII
754	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Shear Test	ASME Section IX
755	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Shear Test	ASME Section VIII
756	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Strain Controlled Fatigue Test	ASTM E606/E606M
757	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test	ASTM B557
758	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test	ASTM E8/E8M

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759	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test	BS EN 10002 (Part 1)
760	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test	IS 1608 (Part 1)
761	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test	ISO 6892 (Part 1)
762	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test	ISO 898 (Part 1)
763	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Time-for-Rupture Notch Tension Tests a) %Elongation	ASTM E292
764	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	API 1104
765	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	ASME Section IX
766	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	ASTM B557
767	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	ASTM E8/E8M
768	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	AWS D 1.1
769	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	BS EN 10002 (Part 1)
770	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	BS EN 895
771	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	BS EN ISO 4136
772	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	IS 1367 (Part 14)

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773	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	IS 1608 (Part 1)
774	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	ISO 6892 (Part 1)
775	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	ISO 6892 (Part 1)
776	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength	ISO 898 (Part 1)
777	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	ASTM E92
778	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	ASTM E92
779	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	IS 1501 (Part 1)
780	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	IS 1501 (Part 1)
781	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	ISO 6507 (Part 1)
782	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Macro Indentation)	ISO 6507 (Part 1)
783	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ASTM E384
784	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ASTM E384
785	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ASTM E384
786	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ASTM E384

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787	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ASTM E384
788	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	IS 1501 (Part 1)
789	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	IS 1501 (Part 1)
790	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	IS 1501 (Part 1)
791	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	IS 1501 (Part 1)
792	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	IS 1501 (Part 1)
793	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ISO 6507 (Part 1)
794	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ISO 6507 (Part 1)
795	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ISO 6507 (Part 1)
796	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ISO 6507 (Part 1)
797	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test (Micro Indentation)	ISO 6507 (Part 1)
798	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress	API 1104
799	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress	ASME Section IX
800	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress	AWS D 1.1

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801	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress	BS EN 895
802	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress	ISO 4136
803	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress, 0.2% & 1.0% Proof Stress, 0.5%EUL	ASTM A370
804	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Yield Stress, 0.2% & 1.0% Proof Stress, 0.5%EUL	ASTM E8/E8M
805	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress, 0.2% & 1.0% Proof Stress, 0.5%EUL	BS EN 10002 (Part 1)
806	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress, 0.2% & 1.0% Proof Stress, 0.5%EUL	IS 1608 (Part 1)
807	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress, 0.2% & 1.0% Proof Stress, 0.5%EUL	ISO 6892 (Part 1)
808	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress, 0.2% & 1.0% Proof Stress, 0.5%EUL	ISO 898 (Part 1)
809	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Wire	Reverse bend Test	IS 1716
810	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement bar/Mechanical Splices	Low cycle fatigue test	IS 16172
811	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement bar/Mechanical Splices	Static Tensile Test a)UTS	IS 16172
812	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement bar/Mechanical Splices	Static Tensile Test b) %EL at Max. Force	IS 16172
813	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement bar/Mechanical Splices	Cyclic Tensile Test	IS 16172
814	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement bar/Mechanical splices	High Cycle Fatigue Test	IS 16172

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815	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement bar/Mechanical splices	Slip Test	IS 16172
816	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement couplers for mechanical splices of bars	High Cycle Fatigue Test	ISO 15835-2
817	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement couplers for mechanical splices of bars	Low cycle fatigue test	ISO 15835-2
818	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement couplers for mechanical splices of bars	Slip Test	ISO 15835-2
819	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement couplers for mechanical splices of bars	Tensile test	ISO 15835-2
820	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcing bars, rods and wire	Axial Force Fatigue Test	ISO 15630 (Part 1)
821	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheet Materials	Plastic Strain Ratio 'r' bar	ASTM E517
822	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheet Materials	Strain hardening exponent 'n' bar	ASTM E646
823	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless steel Fasteners	Proof Load Test (Bolts, Screws & Studs)	IS 1367 : Part 14/Sec.1
824	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless steel Fasteners	Proof Load Test (Nuts)	IS 1367 : Part 14/Sec. 2
825	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Strain hardening exponent 'n' bar	IS 15756
826	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Creep Test a) Creep rate	IS 3407 (Part 1)
827	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Nonmetallic Inclusion	IS 4163
828	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Plastic Strain Ratio 'r' bar	IS 11999

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829	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Creep stress rupture test a) % Elongation	IS 3407 (Part 2)
830	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Creep stress rupture test a) % Reduction	IS 3407 (Part 2)
831	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Creep stress rupture test b) % Reduction	IS 3407 (Part 2)
832	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Creep Test b) % Elongation	IS 3407 (Part 1)
833	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel (Bolts, Screws, Studs and Nuts)	% Elongation	IS 1367 (Part 1)
834	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel (Bolts, Screws, Studs and Nuts)	Yield Stress, 0.2% & 1.0% Proof Stress, 0.5%EUL	IS 1367 (Part 1)
835	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Bars and wires	Re-Bend Test	IS 1786
836	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Bars, Billets, Blooms, and Forgings	Macro etch Test	ASTM E381
837	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Plates	Through Thickness Tensile Test	ASTM A770/A770M
838	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel products	Through Thickness Tensile Test	ISO 7778
839	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys	Bend Test	ASTM A370
840	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys	Brinell Hardness Test	ASTM A370
841	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys	Brinell Hardness Test	ASTM A370
842	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys	Brinell Hardness Test	ASTM A370

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843	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys	Charpy Impact Test (+80 deg. C to -101 deg. C & -196 deg. C)	ASTM A370
844	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys	Flaring Test	ASTM A370
845	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys	Flattening Test	ASTM A370
846	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys	Proof Load Test (Nuts)	ASTM A370
847	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys	Proof Load Test (Bolts, Studs & Screws)	ASTM A370
848	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys	Rockwell Hardness Test	ASTM A370
849	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys	Rockwell Hardness Test	ASTM A370
850	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys	Ultimate Tensile Strength	ASTM A370
851	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welding electrode	determination of efficiency, Metal recovery and deposition Co-Efficient	IS 13043
852	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Zinc Coated Iron & Steel	Mass Of Coating (Stripping Method)	ASTM A90/90M
853	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Zinc Coated Iron & Steel	Mass Of Coating (Stripping Method)	IS 6745
854	MECHANICAL-METALLOGRAPHY TEST	Aluminum Alloys Products	Stress Corrosion Cracking Test	ASTM G47
855	MECHANICAL-METALLOGRAPHY TEST	Austenitic and ferritic-austenitic (duplex) stainless steels	IGC Method A	DIN EN ISO 3651 (Part 2)
856	MECHANICAL-METALLOGRAPHY TEST	Austenitic and ferritic-austenitic (duplex) stainless steels	IGC Method B	DIN EN ISO 3651 (Part 2)
857	MECHANICAL-METALLOGRAPHY TEST	Austenitic and ferritic-austenitic (duplex) stainless steels	IGC Method C	DIN EN ISO 3651 (Part 2)

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858	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	IGC Practice A	ASTM A262
859	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	IGC Practice B	ASTM A262
860	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	IGC Practice C	ASTM A262
861	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	IGC Practice E	ASTM A262
862	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	IGC Practice F	ASTM A262
863	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Determination of Graphite in Cast Iron (Type, Shape, Size, %)	ASTM A247
864	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Determination of Graphite in Cast Iron (Type, Shape, Size, %)	IS 7754
865	MECHANICAL-METALLOGRAPHY TEST	Cast iron	Type Size, & Distribution	ASTM A247
866	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/Ferritic Stainless Steels	Detection of detrimental Intremetallic Phases (Method A)	ASTM A923
867	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/Ferritic Stainless Steels	Determination of Detrimental Intermetallic Phases (Method C)	ASTM A923
868	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steel	IGC Practice W	ASTM A763
869	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steel	IGC Practice X	ASTM A763
870	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steel	IGC Practice Y	ASTM A763
871	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steel	IGC Practice Z	ASTM A763
872	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Nodularity in SG Iron	IS 7754
873	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Macro-Examination a) Metal Expansion	ASME Section IX
874	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Stress Oriented Hydrogen Induced Cracking Test	EFC 16 (Third Edition)

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875	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Stress Oriented Hydrogen Induced Cracking Test	NACE TM0103
876	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Stress Oriented Hydrogen Induced Cracking Test	EFC 16 (Third Edition)
877	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Stress Oriented Hydrogen Induced Cracking Test	NACE MR0175/NACE TM0177
878	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Alternate Immersion Stress Corrosion Test	ASTM G44
879	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Ammonia Vapor Test (SCC)	ASTM B 858 (Ra 2018)
880	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Bent-Beam Stress-Corrosion	ASTM G39
881	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Case Depth (By Microscopic Method)	IS 6416
882	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Case Depth (Hardness Method)	IS 6416
883	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	CSCC ($MgCl_2$) Test	ASTM G36
884	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	CSCC ($MgCl_2$) Test	ASTM G36
885	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Decarburization Test (By Microscopic Method)	ASTM E1077
886	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Decarburization Test (By Microscopic Method)	IS 6396
887	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Ferrite Content Test (By Microscopic Method)	ASTM E562
888	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	HIC Test	NACE TM0284
889	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	IGC (NAMLT) Test	ASTM G67
890	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Inclusion Rating Method A, D	ASTM E45
891	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Inclusion Rating Method M & K	DIN 50602
892	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Macroscopic and Microscopic Examination test	BS EN 1321
893	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Micro Examination	ISO 17639

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894	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Micro Examination (General Structure)	ASM Volume 9
895	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Micro Examination (General Structure)	ASM Volume 9
896	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Micro Examination (Grain Size by Comparison Method)	ASTM E112
897	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Micro Examination (Grain Size by Comparison Method)	ASTM E112
898	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Micro Examination (Grain Size by Comparison Method)	ASTM E112
899	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Micro Examination (Grain Size by Comparison Method)	ASTM E112
900	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Micro Examination (Grain Size by Comparison Method)	IS 4748
901	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Micro Examination (Grain Size by Comparison Method)	IS 4748
902	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Micro Examination (Grain Size by Comparison Method)	IS 4748
903	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Nodularity in SG Iron	ASTM A247
904	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	SCC Test	ASTM B 858(Ra 2018)
905	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	SSCC Test	ASTM G39
906	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	SSCC Test	EFC 16 (Third Edition)
907	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	SSCC Test	EFC 17 (Second Edition)
908	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	SSCC Test	EFC 17 (Third Edition)
909	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	SSCC Test	IS 15490
910	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	SSCC Test	ISO 11439 (Annex A, Cl. A.3)
911	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	SSCC Test	ISO11439 (Annex A, Clause A.3)
912	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	SSCC Test	NACE TM0316

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913	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	SSCC Test(Annex B, Clause 8.3.4)	IS 15490
914	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Sulfide Stress Cracking and Stress Corrosion Cracking	NACE TM0177
915	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Thickness of Coating (Microscopic Method)	ASTM B487
916	MECHANICAL-METALLOGRAPHY TEST	Nickel Based Alloys	IGC Method A	ASTM G28
917	MECHANICAL-METALLOGRAPHY TEST	Nickel Based Alloys	IGC Method B	ASTM G28
918	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Determination of Detrimental Intermetallic Phases (Method B)	ASTM A923
919	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel Castings Containing Both Ferrite and Austenite	Ferrite Content Test (By Ferrite-scope)	ASTM A800/A800M
920	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel Castings Containing Both Ferrite and Austenite	Ferrite Content Test (By Ferrite-scope)	ASTM A800/A800M
921	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Pitting Corrosion Test (Method E)	ASTM G48
922	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Crevice Corrosion Test (Method B)	ASTM G48
923	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Crevice Corrosion Test (Method D)	ASTM G48
924	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Crevice Corrosion Test (Method F)	ASTM G48
925	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Pitting Corrosion Test (Method C)	ASTM G48
926	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Pitting Corrosion Test (Method A)	ASTM G48
927	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Content (Method A, D)	ASTM E45
928	MECHANICAL-METALLOGRAPHY TEST	Steel	Micro Examination (Grain Size by Comparison Method)	IS 4748
929	MECHANICAL-METALLOGRAPHY TEST	Steel	Micro Examination (Grain Size by Comparison Method)	ISO 643
930	MECHANICAL-METALLOGRAPHY TEST	Steel Castings, Stainless	Ferrite Content Test (By Ferrite-scope)	ASTM A799

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931	MECHANICAL-METALLOGRAPHY TEST	Steel Castings, Stainless	Ferrite Content Test (By Ferrite-scope)	ASTM A799
932	NON-DESTRUCTIVE-METALS & ALLOYS	Carbon steel & alloys steel Pipes & Tubing	Ultrasonic Testing	ASME SE213
933	NON-DESTRUCTIVE-METALS & ALLOYS	Carbon steel & alloys steel Pipes & Tubing	Ultrasonic Testing	ASME SE273
934	NON-DESTRUCTIVE-METALS & ALLOYS	Carbon steel and alloy steel Welds, Forging , Plates , Castings, Pipes & Tubing	Ultrasonic Testing	ASME Sec. V Article 4 ,5 & 23
935	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing (Yoke & Prod) Visible & Fluorescent	ASME Sec. V Article 7
936	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing (Yoke & Prod) Visible & Fluorescen	ASME SE709
937	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing (Yoke & Prod) Visible & Fluorescent	ASTM E709
938	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Castings	Ultrasonic Testing	ASME SA609
939	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Aluminium alloys Weldments	Ultrasonic Testing	ASTM E164
940	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Aluminium Alloys Weldments	Ultrasonic Testing	ASME SE164
941	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous Metals & its alloys	LPT by Visible & Florescent Technique using solvent removal technique - for Detection of flaws open to surface	ASME SE165
942	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous Metals & its alloys	LPT by Visible & Florescent Technique using solvent removal technique - for Detection of flaws open to surface	ASME Sec. V Article 6
943	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous Metals & its alloys	LPT by Visible & Florescent Technique using solvent removal technique - for Detection of flaws open to surface	ASTM E165
944	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Nonferrous metals & alloys Pipes & Tubing	Ultrasonic Testing	ASTM E213
945	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous &Nonferrous metals & alloys, Welds,Castings	Radiography Testing X-Rays(Kv-250), Gamma Rays (Ir-192)	IS 1182

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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
946	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous &Nonferrous metals & alloys, Welds,Castings	Radiography Testing X-Rays(Kv-250), Gamma Rays (Ir-192)	ASME SE 94
947	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous &Nonferrous metals & alloys, Welds,Castings	Radiography Testing X-Rays(Kv-250), Gamma Rays (Ir-192)	ASME Sec. V Article 2 & 22
948	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous &Nonferrous metals & alloys, Welds,Castings	Radiography Testing X-Rays(Kv-250), Gamma Rays (Ir-192)	ASTM E 94
949	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Castings	Ultrasonic Testing	ASTM A609
950	NON-DESTRUCTIVE-METALS & ALLOYS	Rolled Steel plates	Ultrasonic Testing	ASME SA578
951	NON-DESTRUCTIVE-METALS & ALLOYS	Rolled steel plates	Ultrasonic Testing	ASTM A578
952	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Forging	Ultrasonic Testing	ASME SA388
953	NON-DESTRUCTIVE-METALS & ALLOYS	Steel plates	Ultrasonic Testing	ASME SA435
954	NON-DESTRUCTIVE-METALS & ALLOYS	Steel plates	Ultrasonic Testing	ASME SA577
955	NON-DESTRUCTIVE-METALS & ALLOYS	Steel plates	Ultrasonic Testing	ASTM A577

SCOPE OF ACCREDITATION

Laboratory Name : TCR ENGINEERING SERVICES PVT. LTD., VKB HOUSE, PLOT NO. EL 182, MIDC TTC, INDUSTRIAL AREA, ELECTRONIC ZONE, MAHAPE, NAVI 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
Site Facility				
1	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS test for Electronics	Bromine	IEC 62321 -3-1
2	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS test for Electronics	Cadmium	IEC 62321-3-1
3	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS test for Electronics	Cadmium	IS 16197 (Part 3, Sec 1)
4	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS test for Electronics	Chromium	IEC 62321-3-1
5	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS test for Electronics	Chromium	IS 16197 (Part 3, Sec 1)
6	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS test for Electronics	Lead	IEC 62321-3-1
7	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS test for Electronics	Lead	IS 16197 (Part 3, Sec 1)
8	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS test for Electronics	Mercury	IEC 62321-3-1
9	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS test for Electronics	Mercury	IS 16197 (Part 3, Sec 1)
10	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Fabrics, Paper products	Bromine	IEC 62321 -3-1
11	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Fabrics, Paper products	Cadmium	IEC 62321-3-1
12	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Fabrics, Paper products	Cadmium	IS 16197 (Part 3, Sec 1)
13	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Fabrics, Paper products	Chromium	IEC 62321-3-1

SCOPE OF ACCREDITATION

Laboratory Name : TCR ENGINEERING SERVICES PVT. LTD., VKB HOUSE, PLOT NO. EL 182, MIDC TTC, INDUSTRIAL AREA, ELECTRONIC ZONE, MAHAPE, NAVI 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
14	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Fabrics, Paper products	Chromium	IS 16197 (Part 3, Sec 1)
15	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Fabrics, Paper products	Lead	IEC 62321-3-1
16	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Fabrics, Paper products	Lead	IS 16197 (Part 3, Sec 1)
17	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Fabrics, Paper products	Mercury	IEC 62321-3-1
18	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Fabrics, Paper products	Mercury	IS 16197 (Part 3, Sec 1)
19	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Lighting,Lamps,lighting fixtures,light bulb,electrical wrings	Bromine	IEC 62321 -3-1:
20	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Lighting,Lamps,lighting fixtures,light bulb,electrical wrings	Cadmium	IEC 62321-3-1
21	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Lighting,Lamps,lighting fixtures,light bulb,electrical wrings	Cadmium	IS 16197 (Part 3, Sec 1)
22	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Lighting,Lamps,lighting fixtures,light bulb,electrical wrings	Chromium	IEC 62321-3-1
23	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Lighting,Lamps,lighting fixtures,light bulb,electrical wrings	Chromium	IS 16197 (Part 3, Sec 1)
24	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Lighting,Lamps,lighting fixtures,light bulb,electrical wrings	Lead	IEC 62321-3-1
25	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Lighting,Lamps,lighting fixtures,light bulb,electrical wrings	Lead	IS 16197 (Part 3, Sec 1)
26	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Lighting,Lamps,lighting fixtures,light bulb,electrical wrings	Mercury	IEC 62321-3-1
27	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Lighting,Lamps,lighting fixtures,light bulb,electrical wrings	Mercury	IS 16197 (Part 3, Sec 1)

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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
28	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Bromine	IEC 62321 -3-1
29	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Cadmium	IEC 62321-3-1; 2013, IEC 62321-5
30	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Cadmium	IS 16197 (Part 3, Sec 1)/ IS 16197 (Part 5)
31	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Chromium	IEC 62321 -3-1
32	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Chromium	IS 16197 (Part 3, Sec 1)/ IS 16197 (Part 5)
33	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Chromium(VI)	IEC 62321-7-1
34	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Chromium(VI)	IS 16197 (Part 7, Sec 1)
35	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Lead	IEC 62321-3-1; 2013, IEC 62321-5
36	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Lead	IS 16197 (Part 3, Sec 1)/ IS 16197 (Part 5)
37	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Mercury	IEC 62321-3-1; 2013, IEC 62321-4
38	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Metallic Materials	Mercury	IS 16197 (Part 3, Sec 1)/ IS 16197 (Part 4)
39	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Paints & Inks products	Bromine	IEC 62321 -3-1:
40	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Paints & Inks products	Cadmium	IEC 62321-3-1
41	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Paints & Inks products	Cadmium	IS 16197 (Part 3: Sec 1)

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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
42	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Paints & Inks products	Chromium	IEC 62321-3-1
43	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Paints & Inks products	Chromium	IS 16197 (Part 3: Sec 1)
44	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Paints & Inks products	Lead	IEC 62321-3-1
45	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Paints & Inks products	Lead	IS 16197 (Part 3: Sec 1)
46	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Paints & Inks products	Mercury	IEC 62321-3-1
47	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Paints & Inks products	Mercury	IS 16197 (Part 3: Sec 1)
48	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Products of plastics, Resins,Rubbers,Glues	Bromine	IEC 62321 -3-1
49	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Products of plastics, Resins,Rubbers,Glues	Cadmium	IS 16197 (Part 3, Sec 1)
50	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Products of plastics, Resins,Rubbers,Glues	Chromium	IS 16197 (Part 3, Sec 1)
51	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Products of plastics, Resins,Rubbers,Glues	Lead	IS 16197 (Part 3, Sec 1)
52	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Products of plastics, Resins,Rubbers,Glues	Mercury	IS 16197 (Part 3, Sec 1)
53	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Products of plastics, Resins,Rubbers,Glues,	Cadmium	IEC 62321-3-1
54	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Products of plastics, Resins,Rubbers,Glues,	Chromium	IEC 62321-3-1
55	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Products of plastics, Resins,Rubbers,Glues,	Lead	IEC 62321-3-1

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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
56	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for Products of plastics, Resins,Rubbers,Glues,	Mercury	IEC 62321-3-1
57	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for various computer parts	Bromine	IEC 62321-3-1
58	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for various computer parts	Cadmium	IEC 62321 -3-1
59	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for various computer parts	Cadmium	IS 16197 (Part 3: Sec 1)
60	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for various computer parts	Chromium	IEC 62321-3-1
61	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for various computer parts	Chromium	IS 16197 (Part 3, Sec 1)
62	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for various computer parts	Lead	IEC 62321-3-1
63	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for various computer parts	Lead	IS 16197 (Part 3-Sec 1)
64	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for various computer parts	Mercury	IEC 62321-3-1
65	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS Test for various computer parts	Mercury	IS 16197 (Part 3, Sec 1)
66	CHEMICAL- METALS & ALLOYS	identification Metallic material by portable XRF analyzer	Chromium	ASTM E1476(Qualitative)
67	CHEMICAL- METALS & ALLOYS	identification Metallic material by portable XRF analyzer	Cobalt	ASTM E1476 (Qualitative)
68	CHEMICAL- METALS & ALLOYS	identification Metallic material by portable XRF analyzer	Iron	ASTM E1476(Qualitative)
69	CHEMICAL- METALS & ALLOYS	identification Metallic material by portable XRF analyzer	Tin	ASTM E1476(Qualitative)
70	CHEMICAL- METALS & ALLOYS	identification Metallic material by portable XRF analyzer	Titanium	ASTM E1476(Qualitative)

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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
71	CHEMICAL- METALS & ALLOYS	identification Metallic material by portable XRF analyzer	Tungsten	ASTM E1476(Qualitative)
72	CHEMICAL- METALS & ALLOYS	identification Metallic material by portable XRF analyzer	Vanadium	ASTM E1476(Qualitative)
73	CHEMICAL- METALS & ALLOYS	identification Metallic material by portable XRF analyzer	Zinc	ASTM E1476(Qualitative)
74	CHEMICAL- METALS & ALLOYS	identification of Metallic material by portable XRF analyzer	Copper	ASTM E1476(Qualitative)
75	CHEMICAL- METALS & ALLOYS	identification of Metallic material by portable XRF analyzer	Lead	ASTM E1476(Qualitative)
76	CHEMICAL- METALS & ALLOYS	identification of Metallic material by portable XRF analyzer	Manganese	ASTM E1476 (Qualitative)
77	CHEMICAL- METALS & ALLOYS	identification of Metallic material by portable XRF analyzer	Molybdenum	ASTM E1476
78	CHEMICAL- METALS & ALLOYS	identification of Metallic material by portable XRF analyzer	Nickel	ASTM E1476(Qualitative)
79	CHEMICAL- METALS & ALLOYS	identification of Metallic material by portable XRF analyzer	Niobium	ASTM E1476(Qualitative)
80	NON-DESTRUCTIVE-METALS & ALLOYS	Carbon steel & alloys steel Pipes & Tubing	Ultrasonic Testing	ASME SE213
81	NON-DESTRUCTIVE-METALS & ALLOYS	Carbon steel & alloys steel Pipes & Tubing	Ultrasonic Testing	ASME SE273
82	NON-DESTRUCTIVE-METALS & ALLOYS	Carbon steel and alloy steel Welds, Forging , Plates , Castings, Pipes & Tubing	Ultrasonic Testing	ASME Sec. V Article 4 ,5 & 23
83	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing (Yoke & Prod) Visible & Fluorescent	ASME Sec. V Article 7
84	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing (Yoke & Prod) Visible & Fluorescen	ASME SE709
85	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing (Yoke & Prod) Visible & Fluorescent	ASTM E709
86	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Castings	Ultrasonic Testing	ASME SA609
87	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Aluminium alloys Weldments	Ultrasonic Testing	ASTM E164
88	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Aluminium Alloys Weldments	Ultrasonic Testing	ASME SE164

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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
89	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous Metals & its alloys	LPT by Visible & Florescent Technique using solvent removal technique - for Detection of flaws open to surface	ASME SE165
90	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous Metals & its alloys	LPT by Visible & Florescent Technique using solvent removal technique - for Detection of flaws open to surface	ASME Sec. V Article 6
91	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Non Ferrous Metals & its alloys	LPT by Visible & Florescent Technique using solvent removal technique - for Detection of flaws open to surface	ASTM E165
92	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous & Nonferrous metals & alloys Pipes & Tubing	Ultrasonic Testing	ASTM E213
93	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous &Nonferrous metals & alloys, Welds,Castings	Radiography Testing X-Rays(Kv-250), Gamma Rays (Ir-192)	ASME SE 94
94	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous &Nonferrous metals & alloys, Welds,Castings	Radiography Testing X-Rays(Kv-250), Gamma Rays (Ir-192)	ASME Sec. V Article 2 & 22
95	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous &Nonferrous metals & alloys, Welds,Castings	Radiography Testing X-Rays(Kv-250), Gamma Rays (Ir-192)	ASTM E 94
96	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Castings	Ultrasonic Testing	ASTM A609
97	NON-DESTRUCTIVE-METALS & ALLOYS	Rolled Steel plates	Ultrasonic Testing	ASME SA578
98	NON-DESTRUCTIVE-METALS & ALLOYS	Rolled steel plates	Ultrasonic Testing	ASTM A578
99	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Forging	Ultrasonic Testing	ASME SA388
100	NON-DESTRUCTIVE-METALS & ALLOYS	Steel plates	Ultrasonic Testing	ASME SA435
101	NON-DESTRUCTIVE-METALS & ALLOYS	Steel plates	Ultrasonic Testing	ASME SA577
102	NON-DESTRUCTIVE-METALS & ALLOYS	Steel plates	Ultrasonic Testing	ASTM A577