



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name PERFECT LABORATORY SERVICES, PLOT NO.3B+3 / PART 19, D1 BLOCK,, PUNE, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5751 Page No. : 1 / 118

Validity 28/06/2019 to 27/06/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL- METALS & ALLOYS	Alloy Steel	Chromium	ASTM E1476: 2004	Qualitative
2	CHEMICAL- METALS & ALLOYS	Alloy Steel	Cobalt	ASTM E1476: 2004	Qualitative
3	CHEMICAL- METALS & ALLOYS	Alloy Steel	Copper	ASTM E1476: 2004	Qualitative
4	CHEMICAL- METALS & ALLOYS	Alloy Steel	Iron	ASTM E1476: 2004	Qualitative
5	CHEMICAL- METALS & ALLOYS	Alloy Steel	Manganese	ASTM E1476: 2004	Qualitative
6	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	ASTM E1476: 2004	Qualitative
7	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nickel	ASTM E1476: 2004	Qualitative
8	CHEMICAL- METALS & ALLOYS	Alloy Steel	Niobium	ASTM E1476: 2004	Qualitative
9	CHEMICAL- METALS & ALLOYS	Alloy Steel	Titanium	ASTM E1476: 2004	Qualitative
10	CHEMICAL- METALS & ALLOYS	Alloy Steel	Tungsten	ASTM E1476: 2004	Qualitative
11	CHEMICAL- METALS & ALLOYS	Alloy Steel	Vanadium	ASTM E1476: 2004	Qualitative
12	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Beryllium	IS 7658: 1975 RA 2014	0.0001 % to 0.0005 %
13	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Beryllium	ASTM E1251: 2011	0.0001 % to 0.0005 %



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14	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Beryllium	IS 11035: 1984	0.0001 % to 0.0005 %
15	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	SOP 66-VAL01: 2013	0.10 % to 0.15 %
16	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	IS 11035: 1984	0.020 % to 0.35 %
17	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	ASTM E1476: 2004	Qualitative
18	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	ASTM E1251: 2011	0.020 % to 0.35 %
19	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	IS 7658: 1975	0.020 % to 0.35 %
20	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Cobalt	IS 7658: 1975	0.040 % to 0.090 %
21	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Cobalt	IS 11035: 1984	0.040 % to 0.090 %
22	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Cobalt	ASTM E1251: 2011	0.040 % to 0.090 %
23	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E1476: 2004	Qualitative
24	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	IS 7658: 1975	0.030 % to 3.00 %
25	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	SOP 66-VAL01: 2013	0.010 % to 1.50 %
26	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	IS 11035: 1984	0.030 % to 3.00 %
27	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E1251: 2011	0.030 % to 3.00 %



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28	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Galium	ASTM E1251: 2011	0.010 % to 0.022 %
29	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Galium	IS 11035: 1984	0.010 % to 0.022 %
30	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Galium	IS 7658: 1975	0.010 % to 0.022 %
31	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E1251: 2011	0.15 % to 1.30 %
32	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	IS 7658: 1975	0.15 % to 1.30 %
33	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	IS 11035: 1984	0.15 % to 1.30 %
34	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E1476: 2004	Qualitative
35	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	SOP 66-VAL01: 2013	0.040 % to 0.60 %
36	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	IS 11035: 1984	0.001 % to 0.30 %
37	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E1251: 2011	0.00439 % to 0.30 %
38	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E1476: 2004	Qualitative
39	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	SOP 66-VAL01: 2013	0.0004 % to 0.10 %
40	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	IS 7658: 1975	0.00439 % to 0.30 %
41	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lithium	IS 7658: 1975	0.006 % to 0.007 %



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42	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lithium	ASTM E1251: 2011	0.006 % to 0.007 %
43	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lithium	IS 11035: 1984	0.006 % to 0.007 %
44	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	SOP 66-VAL01: 2013	0.0008 % to 3.00 %
45	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	IS 7658: 1975	0.20 % to 3.00 %
46	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E1251: 2011	0.20 % to 3.00 %
47	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	IS 11035: 1984	0.20 % to 3.00 %
48	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	IS 7658: 1975	0.025 % to 0.65 %
49	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	SOP 66-VAL01: 2013	0.26 % to 0.40 %
50	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	IS 11035: 1984	0.0342 % to 0.65 %
51	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E1476: 2004	Qualitative
52	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E1251: 2011	0.0342 % to 0.65 %
53	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E1251: 2011	0.00452 % to 0.60 %
54	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	IS 11035: 1984	0.00452 % to 0.60 %
55	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E1476: 2004	Qualitative



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56	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	IS 7658: 1975	0.00452 % to 0.60 %
57	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	SOP 66-VAL01: 2013	0.046 % to 1.00 %
58	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	IS 11035: 1984	0.062 % to 10.00 %
59	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E1251: 2011	0.062 % to 10.00 %
60	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	SOP 66-VAL01: 2013	0.062 % to 12.00 %
61	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	IS 7658: 1975	0.062 % to 10.00 %
62	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E1251: 2011	0.027 % to 0.20 %
63	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	IS 7658: 1975	0.001 % to 0.20 %
64	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	SOP 66-VAL01: 2013	0.027 % to 0.040 %
65	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	IS 11035: 1984	0.027 % to 0.20 %
66	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E1251: 2011	0.010 % to 0.25 %
67	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	IS 11035: 1984	0.010 % to 0.25 %
68	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	IS 7658: 1975	0.010 % to 0.25 %
69	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Vanadium	IS 7658: 1975	0.005 % to 0.025 %



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70	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Vanadium	ASTM E1251: 2011	0.005 % to 0.025 %
71	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Vanadium	SOP 66-VAL01: 2013	0.0018 % to 0.005 %
72	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Vanadium	IS 11035: 1984	0.005 % to 0.025 %
73	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E1251: 2011	0.020 % to 5.80 %
74	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	IS 7658: 1975	0.029 % to 5.80 %
75	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E1476: 2004	Qualitative
76	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	SOP 66-VAL01: 2013	0.036 % to 7.00 %
77	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	IS 11035: 1984	0.029 % to 5.80 %
78	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zirconium	IS 7658: 1975	0.001 % to 0.009 %
79	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zirconium	IS 11035: 1984	0.001 % to 0.009 %
80	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zirconium	ASTM E1251: 2011	0.029 % to 0.009 %
81	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel	Boron	JIS G 1253: 2013	0.0006 % to 0.015 %
82	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel	Lead	JIS G 1253: 2013	0.0189 % to 0.020 %



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83	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Mass of Phosphate Coating	IS 3618 : 1966	0.1 gsm to 100 gsm
84	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Nitrogen	JIS G 1253: 2013	0.0024 % to 0.30 %
85	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Aluminium	JIS G 1253: 2013	0.002 % to 0.20 %
86	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Aluminium	ASTM E415: 2015	0.0020 % to 0.20 %
87	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Aluminium	IS 8811: 1998	0.002 % to 0.20 %
88	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Boron	IS 8811: 1998	0.0006 % to 0.015 %
89	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Boron	ASTM E415: 2015	0.0006 % to 0.015 %
90	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Boron	SOP 66-VAL01: 2013	0.0006 % to 0.005 %
91	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Carbon	JIS G 1253: 2013	0.0065 % to 1.10 %
92	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low carbon, medium carbon & high carbon steel)	Carbon	ASTM E415: 2015	0.0065 % to 1.10 %



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93	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Carbon	IS 8811: 1998	0.0065 % to 1.10 %
94	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Chromium	ASTM E415: 2015	0.0166 % to 4.60 %
95	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Chromium	JIS G 1253: 2013	0.0166 % to 4.60 %
96	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Chromium	IS 8811: 1998	0.0166 % to 4.60 %
97	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Cobalt	JIS G 1253: 2013	0.010 % to 0.060 %
98	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Cobalt	IS 8811: 1998	0.010 % to 0.060 %
99	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Cobalt	ASTM E415: 2015	0.010 % to 0.060 %
100	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Copper	JIS G 1253: 2013	0.101 % to 0.30 %
101	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Copper	IS 8811: 1998	0.101 % to 0.30 %
102	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Copper	ASTM E415: 2015	0.101 % to 0.30 %



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103	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Lead	ASTM E415: 2015	0.0189 % to 0.020 %
104	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Lead	IS 8811: 1998	0.0189 % to 0.020 %
105	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Manganese	ASTM E415: 2015	0.22 % to 1.50 %
106	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Manganese	IS 8811: 1998	0.22 % to 1.50 %
107	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Molybdenum	JIS G 1253: 2013	0.0231 % to 0.60 %
108	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Molybdenum	IS 8811: 1998	0.0231 % to 0.60 %
109	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Molybdenum	ASTM E415: 2015	0.0231 % to 0.60 %
110	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Nickel	IS 8811: 1998	0.019 % to 3.30 %
111	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Nickel	ASTM E415: 2015	0.019 % to 3.30 %
112	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Nickel	JIS G 1253: 2013	0.019 % to 3.30 %



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113	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Niobium	ASTM E415: 2015	0.0057 % to 0.030 %
114	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Niobium	IS 8811: 1998	0.0057 % to 0.030 %
115	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Niobium	JIS G 1253: 2013	0.0057 % to 0.030 %
116	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Nitrogen	IS 8811: 1998	0.0024 % to 0.30 %
117	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Nitrogen	ASTM E415: 2015	0.0024 % to 0.30 %
118	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Phosphorus	ASTM E415: 2015	0.0043 % to 0.070 %
119	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Phosphorus	JIS G 1253: 2013	0.010 % to 0.070 %
120	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Phosphorus	IS 8811: 1998	0.010 % to 0.070 %
121	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Silicon	IS 8811: 1998	0.0822 % to 1.70 %
122	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Silicon	ASTM E415: 2015	0.0822 % to 1.70 %



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123	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Sulphur	IS 8811: 1998	0.0026 % to 0.35 %
124	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Sulphur	JIS G 1253: 2013	0.0026 % to 0.35 %
125	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Sulphur	ASTM E415: 2015	0.0026 % to 0.35 %
126	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Tin	SOP 66-VAL01: 2013	0.0086 % to 0.025 %
127	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Titanium	IS 8811: 1998	0.005 % to 0.020 %
128	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Titanium	JIS G 1253: 2013	0.005 % to 0.020 %
129	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Titanium	ASTM E415: 2015	0.0050 % to 0.020 %
130	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Vanadium	JIS G 1253: 2013	0.002 % to 0.60 %
131	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Vanadium	ASTM E415: 2015	0.0020 % to 0.60 %
132	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Vanadium	IS 8811: 1998	0.0020 % to 0.60 %



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133	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel) , Stainless Steel , Tool Steel	Aluminium	SOP 66-VAL01: 2013	0.002 % to 0.030 %
134	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel) , Stainless Steel , Tool Steel	Carbon	IS 228 Part1: 1987	0.050 % to 2.50 %
135	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel) , Stainless Steel , Tool Steel	Chromium	SOP 66-VAL01: 2013	0.010 % to 26.00 %
136	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel) , Stainless Steel , Tool Steel	Copper	SOP 66-VAL01: 2013	0.010 % to 1.30 %
137	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel) , Stainless Steel , Tool Steel	Manganese	SOP 66-VAL01: 2013	0.20 % to 14.00 %
138	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel) , Stainless Steel , Tool Steel	Molybdenum	SOP 66-VAL01: 2013	0.003 % to 5.00 %



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Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
139	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel) , Stainless Steel , Tool Steel	Nickel	SOP 66-VAL01: 2013	0.015 % to 21.00 %
140	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel) , Stainless Steel , Tool Steel	Phosphorus	SOP 66-VAL01: 2013	0.001 % to 0.080 %
141	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel) , Stainless Steel , Tool Steel	Silicon	SOP 66-VAL01: 2013	0.005 % to 3.00 %
142	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel) , Stainless Steel , Tool Steel	Titanium	SOP 66-VAL01: 2013	0.005 % to 0.45 %
143	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel) , Stainless Steel , Tool Steel	Vanadium	SOP 66-VAL01: 2013	0.020 % to 2.00 %
144	CHEMICAL- METALS & ALLOYS	Cast Iron & S.G. Iron	Carbon (Wet Analysis)	IS 228 Part 1: 1987	1.25 % to 4.50 %
145	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Aluminium	JIS G1253: 2013	0.005 % to 0.050 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
146	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Aluminium	IS 15338: 2003	0.005 % to 0.050 %
147	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Carbon	IS 15338: 2003	1.50 % to 4.00 %
148	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Carbon	JIS G 1253: 2013	1.50 % to 4.00 %
149	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Chromium	IS 15338: 2003	0.020 % to 0.10 %
150	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Chromium	JIS G1253: 2013	0.020 % to 0.10 %
151	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Copper	JIS G1253: 2013	0.010 % to 1.00 %
152	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Copper	IS 15338: 2003	0.010 % to 1.00 %
153	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Magnesium	IS 15338: 2003	0.020 % to 0.056 %
154	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Magnesium	JIS G1253 : 2013	0.020 % to 0.056 %
155	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Manganese	JIS G1253: 2013	0.30 % to 2.00 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
156	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Manganese	IS 15338: 2003	0.30 % to 2.00 %
157	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Molybdenum	JIS G1253: 2013	0.010 % to 0.050 %
158	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Molybdenum	IS 15338: 2003	0.010 % to 0.050 %
159	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Nickel	IS 15338: 2003	0.20 % to 0.60 %
160	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Nickel	JIS G1253: 2013	0.20 % to 0.60 %
161	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Phosphorus	JIS G1253: 2013	0.030 % to 0.50 %
162	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Phosphorus	IS 15338: 2003	0.030 % to 0.50 %
163	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Silicon	IS 15338: 2003	1.00 % to 3.00 %
164	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Silicon	JIS G1253: 2013	1.00 % to 3.00 %
165	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Sulphur	JIS G1253: 2013	0.002 % to 0.15 %



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166	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Sulphur	IS 15338: 2003	0.002 % to 0.15 %
167	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Tin	IS 15338: 2003	0.004 % to 0.045 %
168	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Tin	JIS G1253: 2013	0.0040 % to 0.045 %
169	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Titanium	IS 15338: 2003	0.004 % to 0.050 %
170	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Titanium	JIS G1253: 2013	0.004 % to 0.050 %
171	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Vanadium	IS 15338: 2003	0.010 % to 0.25 %
172	CHEMICAL- METALS & ALLOYS	Cast Iron(Chilled Sample) , S.G.Iron (Chilled Sample)	Vanadium	JIS G1253: 2013	0.010 % to 0.25 %
173	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	BS EN15079: 2015	0.0005 % to 10.00 %
174	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	SOP 66-VAL01: 2013	0.0005 % to 8.50 %
175	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	ASTM E1476: 2004	Qualitative
176	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	BS EN15079: 2015	0.0003 % to 0.45 %



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177	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Arsenic	BS EN15079: 2015	0.001 % to 0.15 %
178	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Arsenic	ASTM E1476: 2004	Qualitative
179	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Bismuth	SOP 66-VAL01: 2013	0.0005 % to 0.050 %
180	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Bismuth	ASTM E1476: 2004	Qualitative
181	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Bismuth	BS EN15079: 2015	0.0003 % to 0.040 %
182	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Chromium	ASTM E1476: 2004	Qualitative
183	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Chromium	SOP 66-VAL01: 2013	0.005 % to 0.050 %
184	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Chromium	BS EN15079: 2015	0.003 % to 0.050 %
185	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cobalt	BS EN15079: 2015	0.0002 % to 0.15 %
186	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cobalt	SOP 66-VAL01: 2013	0.0002 % to 0.0005 %
187	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	ASTM E1476: 2004	Qualitative
188	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	IS 440: 1964	55.00 % to 100.00 %
189	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	IS 4027 Part1: 1987	55.00 % to 100.00 %
190	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	IS 3187: 1965	55.00 % to 100.00 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
191	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	IS 3685: 1966	55.00 % to 100.00 %
192	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	BS EN15079: 2015	0.001 % to 3.50 %
193	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	SOP 66-VAL01: 2013	0.002 % to 3.60 %
194	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	ASTM E1476: 2004	Qualitative
195	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	IS 3187: 1965	0.010 % to 8.00 %
196	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	SOP 66-VAL01: 2013	0.001 % to 6.50 %
197	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	IS 3685: 1966	0.010 % to 8.00 %
198	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	ASTM E1476: 2004	Qualitative
199	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	IS 4027 Part1: 1987	0.010 % to 8.00 %
200	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	BS EN15079: 2015	0.001 % to 9.06 %
201	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Magnesium	SOP 66-VAL01: 2013	0.001 % to 0.005 %
202	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Magnesium	BS EN15079: 2015	0.001 % to 0.010 %
203	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	BS EN15079: 2015	0.0003 % to 2.00 %
204	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	ASTM E1476: 2004	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
205	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	SOP 66-VAL01: 2013	0.0005 % to 1.50 %
206	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	ASTM E1476: 2004	Qualitative
207	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	BS EN15079: 2015	0.0005 % to 6.00 %
208	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	SOP 66-VAL01: 2013	0.0005 % to 6.00 %
209	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	BS EN15079: 2015	0.010 % to 0.65 %
210	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	SOP 66-VAL01: 2013	0.017 % to 0.55 %
211	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Selenium	ASTM E1476: 2004	Qualitative
212	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	SOP 66-VAL01: 2013	0.001 % to 0.032 %
213	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	BS EN15079: 2015	0.001 % to 0.080 %
214	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silver	BS EN15079: 2015	0.002 % to 0.050 %
215	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Sulphur	BS EN15079: 2015	0.020 % to 0.094 %
216	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	BS EN15079: 2015	0.001 % to 12.00 %
217	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	ASTM E1476: 2004	Qualitative
218	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	SOP 66-VAL01: 2013	0.001 % to 12.00 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
219	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	SOP 66-VAL01: 2013	0.001 % to 40.00 %
220	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	BS EN15079: 2015	0.001 % to 40.00 %
221	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	ASTM E1476: 2004	Qualitative
222	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Carbon	ASTM E2209: 2013	0.020 % to 1.20 %
223	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Carbon	JIS G 1253: 2013	0.020 to 0.65
224	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Chromium	JIS G 1253: 2013	2.00 % to 20.00 %
225	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Chromium	ASTM E2209: 2013	2.00 % to 20.00 %
226	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Copper	JIS G 1253: 2013	0.050 % to 0.35 %
227	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Copper	ASTM E2209: 2013	0.050 % to 0.35 %
228	CHEMICAL- METALS & ALLOYS	High manganese steel	Manganese	ASTM E2209: 2013	8.00 to 15.00
229	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Manganese	JIS G 1253: 2013	8.00 % to 15.00 %
230	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Molybdenum	JIS G 1253: 2013	0.10 % to 1.10 %
231	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Molybdenum	ASTM E2209: 2013	0.10 % to 1.10 %
232	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Nickel	JIS G 1253: 2013	1.00 % to 8.00 %

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
233	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Nickel	ASTM E2209: 2013	1.00 % to 8.00 %
234	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Niobium	ASTM E2209: 2013	0.050 % to 0.10 %
235	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Niobium	JIS G 1253: 2013	0.050 % to 0.10 %
236	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Phosphorus	ASTM E2209: 2013	0.010 % to 0.040 %
237	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Phosphorus	JIS G 1253: 2013	0.010 % to 0.040 %
238	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Silicon	JIS G 1253: 2013	0.30 % to 1.10 %
239	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Silicon	ASTM E2209: 2013	0.30 % to 1.10 %
240	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Sulphur	JIS G 1253: 2013	0.001 % to 0.030 %
241	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Sulphur	ASTM E2209: 2013	0.0010 % to 0.030 %
242	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Vanadium	JIS G 1253: 2013	0.014 % to 0.25 %
243	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Vanadium	ASTM E2209: 2013	0.014 % to 0.25 %
244	CHEMICAL- METALS & ALLOYS	Metallic Coatings (Galvanized Articles)	Mass of Zn Coating (Single Spot/Triple Spot)	IS 6745: 1972	0.10 gsm to 3000.00 gsm
245	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminium	SOP 66-VAL01: 2013	0.020 % to 0.60 %
246	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminium	SOP 80-VAL01: 2015	0.050 % to 3.00 %

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247	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Boron	SOP 80-VAL01: 2015	0.001 % to 0.003 %
248	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Boron	SOP 66-VAL01: 2013	0.003 % to 0.008 %
249	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Carbon	SOP 80-VAL01: 2015	0.003 % to 0.20 %
250	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	SOP 66-VAL01: 2013	10.00 % to 20.00 %
251	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	ASTM E1476: 2004	Qualitative
252	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	SOP 80-VAL01: 2015	0.040 % to 23.00 %
253	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt	ASTM E1476: 2004	Qualitative
254	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt	SOP 80-VAL01: 2015	0.003 % to 0.30 %
255	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt	SOP 66-VAL01: 2013	0.030 % to 0.50 %
256	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper	SOP 66-VAL01: 2013	0.010 % to 35.90 %
257	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper	SOP 80-VAL01: 2015	0.010 % to 31.00 %
258	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper	ASTM E1476: 2004	Qualitative
259	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron	SOP 80-VAL01: 2015	0.50 % to 35.00 %
260	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron	SOP 66-VAL01: 2013	1.80 % to 20.00 %



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261	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron	ASTM E1476: 2004	Qualitative
262	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Magnesium	SOP 66-VAL01: 2013	0.050 % to 0.070 %
263	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	SOP 80-VAL01: 2015	0.40 % to 1.00 %
264	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	SOP 66-VAL01: 2013	0.020 % to 1.50 %
265	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	ASTM E1476: 2004	Qualitative
266	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	SOP 80-VAL01: 2015	0.010 % to 16.00 %
267	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	SOP 66-VAL01: 2013	2.50 % to 3.50 %
268	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	ASTM E1476: 2004	Qualitative
269	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Nickel	ASTM E1476: 2004	Qualitative
270	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Niobium	SOP 66-VAL01: 2013	4.00 % to 5.50 %
271	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Niobium	ASTM E1476: 2004	Qualitative
272	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Niobium	SOP 80-VAL01: 2015	0.002 % to 0.20 %
273	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Nitrogen	SOP 80-VAL01: 2015	0.0002 % to 0.010 %
274	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Phosphorus	SOP 66-VAL01: 2013	0.0040 % to 0.010 %



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275	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Phosphorus	SOP 80-VAL01: 2015	0.004 % to 0.020 %
276	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon	SOP 80-VAL01: 2015	0.030 % to 0.25 %
277	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon	SOP 66-VAL01: 2013	0.020 % to 0.54 %
278	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Sulphur	SOP 80-VAL01: 2015	0.0003 % to 0.0025 %
279	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tantalum	ASTM E1476: 2004	Qualitative
280	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tin	SOP 80-VAL01: 2015	0.001 % to 0.030 %
281	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	ASTM E1476: 2004	Qualitative
282	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	SOP 66-VAL01: 2013	0.50 % to 1.20 %
283	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	SOP 80-VAL01: 2015	0.005 % to 1.00 %
284	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tungsten	SOP 80-VAL01: 2015	0.020 % to 3.50 %
285	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tungsten	ASTM E1476: 2004	Qualitative
286	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Vanadium	ASTM E1476: 2004	Qualitative
287	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Vanadium	SOP 80-VAL01: 2015	0.002 % to 0.25 %
288	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Zirconium	SOP 80-VAL01: 2015	0.005 % to 0.060 %



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289	CHEMICAL- METALS & ALLOYS	Others	Zinc	SOP 66-VAL01: 2013	0.002 % to 0.005 %
290	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Aluminium	ASTM E1086: 2014	0.003 % to 1.50 %
291	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Aluminium	JIS G1253: 2013	0.003 % to 0.15 %
292	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Aluminium	IS 9879: 1998	0.003 % to 0.15 %
293	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Carbon	IS 9879: 1998	0.005 % to 1.10 %
294	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Carbon	ASTM E1086: 2014	0.005 % to 1.10 %
295	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Carbon	JIS G1253: 2013	0.005 % to 1.10 %
296	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Chromium	ASTM E1086: 2014	10.00 % to 26.00 %
297	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Chromium	IS 9879: 1998	10.00 % to 26.00 %
298	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Chromium	JIS G1253: 2013	10.00 % to 26.00 %
299	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Cobalt	IS 9879: 1998	0.013 % to 0.40 %
300	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Cobalt	ASTM E1086: 2014	0.013 % to 0.40 %
301	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Cobalt	JIS G1253: 2013	0.013 % to 0.40 %
302	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Copper	JIS G1253: 2013	0.020 % to 5.50 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
303	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Copper	IS 9879: 1998	0.020 % to 5.50 %
304	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Copper	ASTM E1086: 2014	0.020 % to 5.50 %
305	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Manganese	JIS G1253: 2013	0.35 % to 2.00 %
306	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Manganese	IS 9879: 1998	0.35 % to 2.00 %
307	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Manganese	ASTM E1086: 2014	0.35 % to 2.00 %
308	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Molybdenum	IS 9879: 1998	0.050 % to 6.50 %
309	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Molybdenum	JIS G1253: 2013	0.050 % to 6.50 %
310	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Molybdenum	ASTM E1086: 2014	0.050 % to 6.50 %
311	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Nickel	IS 9879: 1998	0.20 % to 25.00 %
312	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Nickel	ASTM E1086: 2014	0.20 % to 25.00 %
313	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Nickel	JIS G1253: 2013	0.20 % to 25.00 %
314	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Niobium	ASTM E1086: 2014	0.003 % to 0.50 %
315	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Niobium	JIS G1253: 2013	0.003 % to 0.50 %
316	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Niobium	IS 9879: 1998	0.003 % to 0.50 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
317	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Nitrogen	IS 9879: 1998	0.010 % to 0.30 %
318	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Nitrogen	ASTM E1086: 2014	0.010 % to 0.30 %
319	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Nitrogen	JIS G1253: 2013	0.010 % to 0.30 %
320	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Phosphorus	ASTM E1086: 2014	0.010 % to 0.035 %
321	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Phosphorus	JIS G1253: 2013	0.010 % to 0.035 %
322	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Phosphorus	IS 9879: 1998	0.010 % to 0.035 %
323	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Silicon	ASTM E1086: 2014	0.25 % to 1.10 %
324	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Silicon	IS 9879: 1998	0.25 % to 1.10 %
325	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Silicon	JIS G1253: 2013	0.25 % to 1.10 %
326	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Sulphur	ASTM E1086: 2014	0.005 % to 0.035 %
327	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Sulphur	IS 9879: 1998	0.005 % to 0.035 %
328	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Sulphur	JIS G1253: 2013	0.005 % to 0.035 %
329	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Tantalum	ASTM E1086: 2014	0.003 % to 0.007 %
330	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Tantalum	IS 9879: 1998	0.003 % to 0.007 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
331	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Tantalum	JIS G1253: 2013	0.003 % to 0.007 %
332	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Titanium	IS 9879: 1998	0.0010 % to 0.50 %
333	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Titanium	JIS G1253: 2013	0.001 % to 0.50 %
334	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Titanium	ASTM E1086: 2014	0.0010 % to 0.50 %
335	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Tungsten	IS 9879: 1998	0.050 % to 0.20 %
336	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Tungsten	JIS G1253: 2013	0.013 % to 0.40 %
337	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Tungsten	ASTM E1086: 2014	0.050 % to 0.20 %
338	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Tungsten	JIS G1253: 2013	0.050 % to 0.20 %
339	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Vanadium	IS 9879: 1998	0.010 % to 0.50 %
340	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Vanadium	ASTM E1086: 2014	0.010 % to 0.50 %
341	CHEMICAL- METALS & ALLOYS	Stainless Steel & Its Types	Vanadium	JIS G1253: 2013	0.010 % to 0.50 %
342	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Chromium	ASTM E1476: 2004	Qualitative
343	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Copper	ASTM E1476: 2004	Qualitative
344	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Iron	ASTM E1476: 2004	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
345	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Manganese	ASTM E1476: 2004	Qualitative
346	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Molybdenum	ASTM E1476: 2004	Qualitative
347	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Niobium	ASTM E1476: 2004	Qualitative
348	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Palladium	ASTM E1476: 2004	Qualitative
349	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Tin	ASTM E1476: 2004	Qualitative
350	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Titanium	ASTM E1476: 2004	Qualitative
351	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Vanadium	ASTM E1476: 2004	Qualitative
352	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Zirconium	ASTM E1476: 2004	Qualitative
353	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	SOP 66-VAL01: 2013	0.010 % to 6.00 %
354	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	SOP 66-VAL01: 2013	5.50 % to 21.00 %
355	CHEMICAL- METALS & ALLOYS	Tool Steel & Die Steel	Aluminium	JIS G 1253: 2013	0.010 % to 0.020 %
356	CHEMICAL- METALS & ALLOYS	Tool Steel & Die Steel	Carbon	JIS G 1253: 2013	0.70 % to 1.20 %
357	CHEMICAL- METALS & ALLOYS	Tool Steel & Die Steel	Chromium	JIS G 1253: 2013	3.50 % to 5.20 %
358	CHEMICAL- METALS & ALLOYS	Tool Steel & Die Steel	Cobalt	JIS G 1253: 2013	0.010 % to 8.10 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
359	CHEMICAL- METALS & ALLOYS	Tool Steel & Die Steel	Manganese	JIS G 1253: 2013	0.18 % to 0.35 %
360	CHEMICAL- METALS & ALLOYS	Tool Steel & Die Steel	Molybdenum	JIS G 1253: 2013	5.00 % to 10.00 %
361	CHEMICAL- METALS & ALLOYS	Tool Steel & Die Steel	Nickel	JIS G 1253: 2013	0.05 % to 0.15 %
362	CHEMICAL- METALS & ALLOYS	Tool Steel & Die Steel	Phosphorus	JIS G 1253: 2013	0.015 % to 0.035 %
363	CHEMICAL- METALS & ALLOYS	Tool Steel & Die Steel	Silicon	JIS G 1253: 2013	0.15 % to 0.30 %
364	CHEMICAL- METALS & ALLOYS	Tool Steel & Die Steel	Sulphur	JIS G 1253: 2013	0.015 % to 0.035 %
365	CHEMICAL- METALS & ALLOYS	Tool Steel & Die Steel	Tungsten	JIS G 1253: 2013	1.00 % to 7.00 %
366	CHEMICAL- METALS & ALLOYS	Tool Steel & Die Steel	Vanadium	JIS G 1253: 2013	1.00 % to 2.30 %
367	CHEMICAL- METALS & ALLOYS	Tool Steel, Cast Iron & S.G. Iron	Carbon	ASTM E351: 2013	1.25 % to 4.50 %
368	CHEMICAL- PLASTIC & RESINS	Plastic & polymers	Ash Content	ASTM D5630: 2013	0.010 % to 55 %
369	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers	Ash Content	ISO 3451 (1): 1997	0.010 % to 55 %
370	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers	Ash Content	IS 13360 (Part 8 Section 8): 2004	0.010 % to 55 %
371	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber Products	Ash Content	IS 3400 (Part 22): 1984	0.010 % to 55.00 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
372	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber Products	Ash Content	ASTM D 4574: 2006	0.010 % to 55.00 %
373	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber Products	Ash Content	IS 11720 (Part 5): 1993	0.010 % to 55.00 %
374	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber Products	Rubber Identification (Pyrolysis Test)	IS 3400 (Part 22): 1984	Qualitative
375	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Izod Impact Test	BS 131-1: 1961	0 J to 170 J
376	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 50)	IS 1501 (Part 1): 2013	100 HV 50 to 800 HV 50
377	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys, Copper & its alloys	Brinell Hardness Test (HBW 10/1000)	IS 1500 (Part 1): 2013	45 HBW to 150 HBW
378	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys, Copper & its alloys	Brinell Hardness Test (HBW 10/1000)	ISO 6506-1: 2005	45 HBW to 150 HBW
379	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys, Copper & its alloys	Brinell Hardness Test (HBW 10/1000)	BS EN ISO 6506-1: 2014	45 HBW to 150 HBW



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380	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys, Copper & its alloys	Brinell Hardness Test (HBW 10/1000)	ASTM E10: 2015	45 HBW to 150 HBW
381	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys, Copper & its alloys	Brinell Hardness Test (HBW 10/1000)	ASME Sec. II Part A SA 370: 2017	45 HBW to 150 HBW
382	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys, Copper & its alloys	Brinell Hardness Test (HBW 10/1000)	ASTM A370: 2017	45 HBW to 150 HBW
383	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys, Copper & its alloys	Brinell Hardness test (HBW 10/500)	ASTM E10: 2015	45 HBW to 150 HBW
384	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys, Copper & its alloys	Brinell Hardness Test (HBW 10/500)	ISO 6506-1: 2005	45 HBW to 150 HBW
385	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys, Copper & its alloys	Brinell Hardness Test (HBW 10/500)	IS 1500 (Part 1): 2013	45 HBW to 150 HBW
386	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys, Copper & its alloys	Brinell Hardness Test (HBW 10/500)	ASTM A370: 2017	45 HBW to 150 HBW



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387	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys, Copper & its alloys	Brinell Hardness test (HBW 10/500)	ASME Sec. II Part A SA 370: 2017	45 HBW to 150 HBW
388	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys, Copper & its alloys	Brinell Hardness Test (HBW 10/500)	BS EN ISO 6506-1: 2014	45 HBW to 150 HBW
389	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys	Brinell Hardness Test (HBW 2.5/187.5)	BS EN ISO 6506-1: 2014	70 HBW to 450 HBW
390	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys	Brinell Hardness Test (HBW 2.5/187.5)	ISO 6506-1: 2005	70 HBW to 450 HBW
391	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys	Brinell Hardness Test (HBW 2.5/187.5)	IS 1500 (part 1): 2013	70 HBW to 450 HBW
392	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys	Brinell Hardness Test (HBW 2.5/187.5)	ASTM E10: 2015	70 HBW to 450 HBW
393	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys	Leeb Hardness Test	ASTM A956: 2012	200 HLD to 900 HLD



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394	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys, Copper & its alloys, Nickel & its alloys, Titanium & its alloys	Surface Roughness Test	IS 3073: 1967	0.010 microns to 25.00 microns
395	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & its products, Copper alloys & its products, Nickel alloys & its products, Titanium alloys & its products	Tensile Test (Ultimate Tensile Strength)	IS 1608: 2018	50 MPa to 5000 MPa
396	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & its products, Copper alloys & its products, Nickel alloys & its products, Titanium alloys & its products	Tensile Test (Ultimate Tensile Strength)	ASME Sec. II part A SA 370: 2017	50 MPa to 5000 MPa
397	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products	Flaring Test / Drift Expansion Test	ASME Sec. II part B SB210: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
398	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products	Flaring Test / Drift Expansion Test	ASTM B210: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
399	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products	Flattening Test	ASTM B210: 2017	Qualitative(OD : 6 mm to 200 mm / Wall Thickness : 0.5 mm to 10 mm)
400	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products	Flattening Test	ASME Sec. II part B SB 210: 2017	Qualitative(OD : 6 mm to 200 mm / Wall Thickness : 0.5 mm to 10 mm)



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401	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products	Tensile test (0.2 % Proof Stress)	ASTM B557: 2017	50 MPa to 2500 MPa
402	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products	Tensile Test (Elongation)	ASTM B557: 2017	0.1 % to 80 %
403	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products	Tensile Test (Reduction Area)	ASTM B557: 2017	0.1 % to 80 %
404	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products	Tensile Test (Ultimate Tensile Strength)	ASTM B557: 2017	50 MPa to 3000 MPa
405	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products	Tensile Test (Yield Stress)	ASTM B557: 2017	50 MPa to 2500 MPa
406	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Bend Test (For Flat products & Round products)	ASME Sec. IX: 2017	Qualitative(Mandrel Diameter : 1 mm to 175 mm)
407	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Bend Test (For Flat products & Round products)	BS EN ISO 5173: 2010	Qualitative(Mandrel Diameter : 1 mm to 175 mm)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
408	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Bend Test (For Flat products & Round products)	ISO 5173: 2009	Qualitative(Mandrel Diameter : 1 mm to 175 mm)
409	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Bend Test (For Flat products & Round products)	ASTM E 290: 2014	Qualitative(Mandrel Diameter : 1 mm to 175 mm)
410	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Bend Test (For Flat products & Round products)	ASME Sec. II part A SA 370: 2017	Qualitative(Mandrel Diameter : 1 mm to 175 mm)
411	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Bend Test (For Flat products & Round products)	ISO 7438: 2005	Qualitative(Mandrel Diameter : 1 mm to 175 mm)
412	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Bend Test (For Flat products & Round products)	AWS B4.0: 2016	Qualitative(Mandrel Diameter : 1 mm to 175 mm)



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413	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Bend Test (For Flat products & Round Products)	BS EN ISO 7438: 2016	Qualitative(Mandrel Diameter : 1 mm to 175 mm)
414	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Bend Test (For Flat products & Round products)	IS 1599: 2012	Qualitative(Mandrel Diameter : 1mm to 175 mm)
415	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Bend Test (For Flat products & Round products)	ASTM A370: 2017	Qualitative(Mandrel Dia : 1 mm to 175 mm)
416	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (0.2 % Proof Stress)	ISO 5178: 2001	50 MPa to 2500 MPa
417	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (0.2 % Proof Stress)	ASME Sec. II part A SA 370: 2017	50 MPa to 2500 MPa



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418	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (0.2 % Proof Stress)	ASTM A370: 2017	50 MPa to 2500 MPa
419	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (0.2 % Proof Stress)	ISO 4136: 2001	50 MPa to 2500 MPa
420	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (0.2 % Proof Stress)	ASTM E8/E8M: 2016	50 MPa to 2500 MPa
421	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (0.2 % Proof Stress)	BS EN ISO4136: 2012	50 MPa to 2500 MPa
422	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (0.2 % Proof Stress)	AWS B4.0: 2016	50 MPa to 2500 MPa



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
423	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (0.5 % Proof Stress)	IS 3600 (Part 1): 1985	50 MPa to 2500 MPa
424	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (0.5 % Proof Stress)	ISO 5178: 2001	50 MPa to 2500 MPa
425	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (0.5 % Proof Stress)	ASME Sec. II part A SA 370: 2017	50 MPa to 2500 MPa
426	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (0.5 % proof Stress)	BS EN ISO 4136: 2012	50 MPa to 2500 MPa
427	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (0.5 % Proof Stress)	AWS D1.6/D1.6M: 2017	50 MPa to 2500 MPa



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428	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (0.5 % Proof Stress)	AWS D1.1/D1.1M: 2015	50 MPa to 2500 MPa
429	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (0.5 % Proof Stress)	ASTM A370: 2017	50 MPa to 2500 MPa
430	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (0.5 % proof Stress)	ISO 4136: 2001	50 MPa to 2500 MPa
431	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (0.5 % Proof Stress)	ASTM E8/E8M: 2016	50 MPa to 2500 MPa
432	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (0.5 % Proof Stress)	AWS B4.0: 2016	50 MPa to 2500 MPa



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433	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (0.5 % Proof Stress)	IS 3600 (Part 4): 1984	50 MPa to 2500 MPa
434	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (1% Proof Stress)	AWS D1.1/D1.1M: 2015	50 MPa to 2500 MPa
435	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (1% Proof Stress)	ASTM A370: 2017	50 MPa to 2500 MPa
436	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (1% Proof Stress)	ISO 4136: 2001	50 MPa to 2500 MPa
437	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (1% Proof Stress)	AWS D1.6/D1.6M: 2017	50 MPa to 2500 MPa



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
438	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (1% proof Stress)	ASME Sec. II part A SA 370: 2017	50 MPa to 2500 MPa
439	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (1% Proof Stress)	BS EN ISO 4136: 2012	50 MPa to 2500 MPa
440	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (1% proof Stress)	IS 3600 (Part 1): 1985	50 MPa to 2500 MPa
441	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (1% proof Stress)	ISO 5178: 2001	50 MPa to 2500 MPa
442	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (1% Proof Stress)	IS 3600 (Part 4): 1984	50 MPa to 2500 MPa



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
443	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (1% proof Stress)	AWS B4.0: 2016	50 MPa to 2500 MPa
444	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (1% proof Stress)	ASTM E8/E8M: 2016	50 MPa to 2500 MPa
445	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Elongation)	ASME Sec. II part A SA 370: 2017	0.1 % to 80 %
446	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Elongation)	BS EN ISO 4136: 2012	0.1 % to 80 %
447	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Elongation)	IS 3600 (Part 4): 1984	0.1 % to 80 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
448	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Elongation)	AWS B4.0: 2016	0.1 % to 80 %
449	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Elongation)	ASTM A370: 2017	0.1 % to 80 %
450	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Elongation)	ISO 4136: 2001	0.1 % to 80 %
451	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Elongation)	AWS D1.6/D1.6M: 2017	0.1 % to 80 %
452	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Elongation)	ISO 3600 (Part 1): 1985	0.1 % to 80 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
453	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Elongation)	ISO 5178: 2001	0.1 % to 80 %
454	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Elongation)	ASTM E8/E8M: 2016	0.1 % to 80 %
455	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Elongation)	AWS D1.1/D1.1M: 2015	0.1 % to 80 %
456	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Reduction Area)	ASTM E8/E8M: 2016	0.1 % to 80 %
457	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Reduction Area)	BS EN ISO 6892-1: 2016	0.1 % to 80 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
458	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Reduction Area)	IS 3600 (Part 1): 1985	0.1 % to 80 %
459	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Reduction Area)	ISO 5178: 2001	0.1 % to 80 %
460	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Reduction Area)	IS 1608: 2018	0.1 % to 80 %
461	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Reduction Area)	AWS D1.6/D1.6M: 2017	0.1 % to 80 %
462	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Reduction Area)	AWS D1.1/D1.1M: 2015	0.1 % to 80 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
463	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Reduction Area)	ASTM A370: 2017	0.1 % to 80 %
464	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Reduction Area)	ISO 4136: 2001	0.1 % to 80 %
465	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Reduction Area)	IS 3600 (Part 4): 1984	0.1 % to 80 %
466	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Reduction Area)	AWS B4.0: 2016	0.1 % to 80 %
467	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Reduction Area)	ASME Sec. II part A SA 370: 2017	0.1 % to 80 %



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468	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Reduction Area)	BS EN ISO 4136: 2012	0.1 % to 80 %
469	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Reduction Area)	ISO 6892-1: 2016	0.1 % to 80 %
470	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Reduction Area)	DIN EN ISO 6892-1: 2016	0.1 % to 80 %
471	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Ultimate Tensile Strength)	IS 3600 (Part 3): 2009	50 MPa to 5000 MPa
472	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Ultimate Tensile Strength)	ISO 5178: 2001	50 MPa to 5000 MPa



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
473	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Ultimate Tensile Strength)	AWS D1.1/D1.1M: 2015	50 MPa to 5000 MPa
474	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Ultimate Tensile Strength)	IS 3600 (Part 1): 1985	50 MPa to 5000 MPa
475	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Ultimate Tensile Strength)	ISO 4136: 2001	50 MPa to 5000 MPa
476	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Ultimate Tensile Strength)	ASTM A370: 2017	50 MPa to 5000 MPa
477	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Ultimate Tensile Strength)	BS EN ISO 4136: 2012	50 MPa to 5000 MPa



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478	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Ultimate Tensile Strength)	ISO 6892-1: 2016	50 MPa to 5000 MPa
479	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Ultimate Tensile Strength)	DIN EN ISO 6892-1: 2016	50 MPa to 5000 MPa
480	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Ultimate Tensile Strength)	ASME Sec. IX: 2017	50 MPa to 5000 MPa
481	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Ultimate Tensile Strength)	BS EN ISO 6892-1: 2016	50 MPa to 5000 MPa
482	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Ultimate Tensile Strength)	ASTM E8/E8M): 2016	50 MPa to 5000 MPa



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483	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Ultimate Tensile Strength)	AWS D1.6/D1.6M: 2017	50 MPa to 5000 MPa
484	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Ultimate Tensile Strength)	IS 3600 (Part 4): 1984	50 MPa to 5000 MPa
485	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Ultimate Tensile Strength)	AWS B4.0: 2016	50 MPa to 5000 MPa
486	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Yield Stress)	ASME Sec. II part A SA 370: 2017	50 MPa to 3000 MPa
487	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Yield Stress)	ISO 4136: 2001	50 MPa to 3000 MPa



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
488	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Yield Stress)	AWS D1.6/1.6M: 2017	50 MPa to 3000 MPa
489	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Yield Stress)	BS EN ISO4136: 2012	50 MPa to 3000 MPa
490	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Yield Stress)	ASTM A370: 2017	50 MPa to 3000 MPa
491	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Yield Stress)	AWS B4.0: 2016	50 MPa to 3000 MPa
492	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Yield Stress)	ASTM E8/E8M): 2016	50 MPa to 3000 MPa



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
493	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Yield Stress)	ISO 5178: 2001	50 MPa to 3000 MPa
494	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Tensile Test (Yield Stress)	AWS D1.1/D1.1M: 2015	50 MPa to 3000 MPa
495	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Nickel alloys & products	Rockwell Hardness (HRBW)	ISO 6508-1: 2005	40 HRBW to 100 HRBW
496	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Nickel alloys & products	Rockwell Hardness (HRBW)	ASTM E18: 2016	40 HRBW to 100 HRBW
497	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Nickel alloys & products	Rockwell Hardness (HRBW)	ASME Sec. II Part A SA 370: 2017	40 HRBW to 100 HRBW
498	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Nickel alloys & products	Rockwell Hardness (HRBW)	ASTM A370: 2017	40 HRBW to 100 HRBW
499	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium alloys & products, Nickel alloys & products	Rockwell Hardness (HRBW)	IS 1586 (Part 1): 2012	40 HRBW to 100 HRBW

This is annexure to 'Certificate of Accreditation' and does not require any signature.



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
500	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Charpy Impact Test (V Notch)	ISO 148-1: 2009	0 J to 400 J
501	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Charpy Impact Test (V Notch)	ASTM E23: 2016	0 J to 400 J
502	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Charpy Impact Test (V Notch)	ASTM A370: 2017	0 J to 400 J
503	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Charpy Impact Test (V Notch)	AWS B4.0: 2016	0 J to 400 J
504	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Charpy Impact Test (V notch)	IS 1757: 1988	0 J to 300 J



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
505	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Charpy Impact Test (V Notch)	ASME Sec. II part A SA 370: 2017	0 J to 400 J
506	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Flaring Test / Drift Expansion Test	ASTM B111: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
507	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Flaring Test / Drift Expansion Test	ASME Sec. II part B SB 111: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
508	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Flaring Test / Drift Expansion Test	ASME Sec. II part B SB 359: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
509	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Flaring test / Drift Expansion Test	ASTM B359: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
510	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Flaring Test / Drift Expansion Test	ASTM B395: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
511	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Flaring Test / Drift Expansion Test	ASME Sec. II part B SB395: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
512	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Flattening test	ASME Sec. II part B SB 395: 2017	Qualitative(OD : 6 mm to 200 mm / Wall Thickness : 0.50 mm to 10 mm)
513	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Flattening Test	ASTM B395: 2017	Qualitative(OD : 6 mm to 200 mm / Wall Thickness : 0.5 mm to 10 mm)
514	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Flattening Test	ASME Sec. II part B SB 359: 2017	Qualitative(OD : 6 mm to 200 mm / Wall Thickness : 0.50 mm to 10 mm)
515	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Flattening Test	ASTM B359: 2017	Qualitative(OD : 6 mm to 200 mm / Wall Thickness : 0.5 mm to 10 mm)
516	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Flattening Test	ASME Sec. II part B SB 111: 2017	Qualitative(OD : 6 mm to 80 mm / Wall Thickness : 0.50 mm to 10 mm)
517	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Flattening Test	ASTM B111: 2017	Qualitative(OD : 6 mm to 80 mm / Wall Thickness : 0.5 mm to 10 mm)
518	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Peel Test	ASME Sec. IX: 2017	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
519	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Rockwell Hardness (HRBW)	ASME Sec. II Part A SA 370: 2017	40 HRBW to 100 HRBW
520	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Rockwell Hardness (HRBW)	ASTM E18: 2016	40 HRBW to 100 HRBW
521	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Rockwell Hardness (HRBW)	ASTM A370: 2017	40 HRBW to 100 HRBW
522	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Rockwell Hardness (HRBW)	IS 1586 (Part 1): 2012	40 HRBW to 100 HRBW
523	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Rockwell Hardness (HRBW)	ISO 6508-1: 2005	40 HRBW to 100 HRBW
524	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloy & products	Vickers Hardness Test (HV 1)	ASTM E384: 2016	100 HV 1 to 600 HV 1
525	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloy & products	Vickers Hardness Test (HV 5)	BS EN ISO 6507-1: 2005	100 HV 5 to 600 HV 5



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
526	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloy & products	Vickers Hardness Test (HV 5)	IS 1501 (Part 1): 2013	100 HV 5 to 600 HV 5
527	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloy & products	Vickers Hardness Test (HV 5)	ASTM E92: 2017	100 HV 5 to 600 HV 5
528	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloy & products	Vickers Hardness Test (HV 5)	ISO 6507-1: 2005	100 HV 5 to 600 HV 5
529	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloy & products	Vickers Hardness Test (HV 5)	ASTM A 370: 2017	100 HV 5 to 600 HV 5
530	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloy & products	Vickers Hardness Test (HV 5)	BS EN ISO 6507-1: 2005	100 HV 5 to 600 HV 5
531	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloy & products	Vickers Hardness Test(HV 5)	ASME Sec. II Part A SA370: 2017	100 HV 5 to 600 HV 5
532	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Elongation	ASTM A370: 2017	0.1 % to 80 %



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533	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Elongation	IS 3600 (Part 4): 1984	0.1 % to 80 %
534	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Elongation	AWS B4.0: 2016	0.1 % to 80 %
535	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Elongation	AWS D1.6/D1.6M: 2017	0.1 % to 80 %
536	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Elongation	ISO 5178: 2001	0.1 % to 80 %
537	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Elongation	ASME Sec. II part A SA 370: 2017	0.1 % to 80 %
538	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Elongation	BS EN ISO 6892-1: 2016	0.1 % to 80 %
539	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Elongation	IS 3600 (Part 1): 1985	0.1 % to 80 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
540	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Elongation	AWS D1.1/D1.1M: 2015	0.1 % to 80 %
541	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Elongation	ASTM E8/E8M: 2016	0.1 % to 80 %
542	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Elongation	ISO 4136: 2001	0.1 % to 80 %
543	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Elongation	BS EN ISO 4136: 2012	0.1 % to 80 %
544	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Reduction Area	ASTM A370: 2017	0.1 % to 80 %
545	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Reduction Area	ISO 4136: 2001	0.1 % to 80 %
546	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Reduction Area	IS 3600 (Part 4): 1984	0.1 % to 80 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
547	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Reduction Area	AWS B4.0: 2016	0.1 % to 80 %
548	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Reduction Area	ASME Sec. II part A SA 370: 2017	0.1 % to 80 %
549	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Reduction Area	BS EN ISO 4136: 2012	0.1 % to 80 %
550	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Reduction Area	AWS D1.6/D1.6M: 2017	0.1 % to 80 %
551	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Reduction Area	IS 3600 (Part 1): 1985	0.1 % to 80 %
552	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Reduction Area	ISO 5178: 2001	0.1 % to 80 %
553	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Reduction Area	ASTM E8/E8M: 2016	0.1 % to 80 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
554	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Reduction Area	AWS D1.1/D1.1M: 2015	0.1 % to 80 %
555	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	0.5 % Proof Stress	AWS B4.0: 2016	50 MPa to 2500 MPa
556	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	0.5% Proof stress	ASME Sec. II part A SA 370: 2017	50 MPa to 2500 MPa
557	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	1% Proof Stress	AWS D1.1/D1.1M: 2015	50 MPa to 2500 MPa
558	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	1% Proof Stress	AWS D1.6/D1.6M: 2017	50 MPa to 2500 MPa
559	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	1% Proof Stress	IS 3600 (Part 1): 1985	50 MPa to 2500 MPa
560	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	1% Proof Stress	ISO 5178: 2001	50 MPa to 2500 MPa



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
561	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	1% Proof Stress	ASME Sec. II part A SA 370: 2017	50 MPa to 2500 MPa
562	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	1% Proof Stress	BS EN ISO 4136: 2012	50 MPa to 2500 MPa
563	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	1% Proof Stress	ASTM E8/E8M: 2016	50 MPa to 2500 MPa
564	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	1% Proof Stress	BS EN ISO 6892-1: 2016	50 MPa to 2500 MPa
565	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	1% Proof Stress	IS 3600 (Part 4): 1984	50 MPa to 2500 MPa
566	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	1% Proof Stress	AWS B4.0: 2016	50 MPa to 2500 MPa
567	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	1% Proof Stress	ASTM A370: 2017	50 MPa to 2500 MPa



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
568	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	1% Proof Stress	ISO 4136: 2001	50 MPa to 2500 MPa
569	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test (For Flat products & Round products)	ASME Sec. II part A SA 370: 2017	Qualitative(Mandrel Diameter : 1 mm to 175 mm)
570	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test (Flat products & Round products)	IS 1599: 2012	Qualitative(Mandrel Diameter 1mm to 175 mm)
571	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test (For Flat products & Round products)	IS 3600 (Part 7): 1985	Qualitative(Mandrel Diameter : 1 mm to 175 mm)
572	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test (For Flat products & Round products)	BS EN ISO 5173: 2010	Qualitative(Mandrel Diameter : 1 mm to 175 mm)
573	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test (For Flat products & Round products)	AWS D1.1/D1.1M: 2015	Qualitative(Mandrel Diameter : 1 mm to 175 mm)
574	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test (For Flat products & Round products)	ASTM A370: 2017	Qualitative(Mandrel Diameter : 1 mm to 175 mm)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
575	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test (For flat products & Round products)	BS EN ISO 7438: 2016	Qualitative(Mandrel Diameter : 1 mm to 175 mm)
576	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test (For Flat products & Round products)	IS 3600 (Part 5): 1983	Qualitative(Mandrel Diameter : 1 mm to 175 mm)
577	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test (For Flat products & Round products)	AWS B4.0: 2016	Qualitative(Mandrel Diameter : 1 mm to 175 mm)
578	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test (For Flat products & Round products)	ASTM E0290: 2014	Qualitative(Mandrel Diameter : 1 mm to 175 mm)
579	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test (For Flat products & Round products)	ISO 5173: 2009	Qualitative(Mandrel Diameter : 1 mm to 175 mm)
580	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test (For Flat products & Round products)	ASME Sec. IX: 2017	Qualitative(Mandrel Diameter : 1 mm to 175 mm)
581	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test (For Flat products & Round products)	AWS D1.6/D1.6M: 2017	Qualitative(Mandrel Diameter : 1 mm to 175 mm)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
582	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test (For Flat products & Round products)	IS 3600 (Part 6): 1983	Qualitative(Mandrel Diameter : 1 mm to 175 mm)
583	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test(For Flat products & Round products)	ISO 7438: 2005	Qualitative(Mandrel Diameter : 1 mm to 175 mm)
584	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness Test (HBW 10/3000)	ISO 6506-1: 2005	70 HBW to 600 HBW
585	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness Test (HBW 10/3000)	BS EN ISO 6506-1: 2014	70 HBW to 600 HBW
586	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness Test (HBW 10/3000)	ASTM A 370: 2017	70 HBW to 600 HBW
587	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness Test (HBW 10/3000)	ASTM E10: 2015	70 HBW to 600 HBW
588	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness Test (HBW 10/3000)	IS 1500 (Part 1): 2013	70 HBW to 600 HBW



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
589	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell hardness Test (HBW 10/3000)	ASME SEC. II Part A SA 370: 2017	70 HBW to 600 HBW
590	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness Test (HBW 2.5/187.5)	ISO 6506-1: 2005	70 HBW to 450 HBW
591	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness Test (HBW 2.5/187.5)	IS 1500 (Part 1): 2013	70 HBW to 450 HBW
592	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness Test (HBW 2.5/187.5)	ASTM E10: 2015	70 HBW to 450 HBW
593	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness Test (HBW 2.5/187.5)	BS EN ISO 6506-1: 2014	70 HBW to 450 HBW
594	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test (V Notch)	ISO 9016: 2001	0 J to 400 J
595	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test (U Notch)	IS 1499: 1977	0 J to 300 J



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
596	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test (V notch & U notch)	ISO 148-1: 2009	0 J to 400 J
597	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test (V notch & U notch)	ASTM E23: 2016	0 J to 400 J
598	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test (V notch & U notch)	ASME Sec. II part A SA 370: 2017	0 J to 400 J
599	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test (V notch & U notch)	ASTM A370: 2017	0 J to 400 J
600	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test (V Notch)	IS 1757: 1988	0 J to 300 J
601	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test (V Notch)	BS EN ISO 9016: 2012	0 J to 400 J
602	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test (V Notch)	IS 2825: 1975	0 J to 300 J



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
603	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test (V Notch)	ASME Sec. VIII Division 1: 2017	0 J to 400 J
604	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test (V Notch)	BS EN ISO 9016: 2012	0 J to 400 J
605	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Crush Test	IS 3074: 2005	Qualitative
606	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Crush Test	ASME Sec. II part A SA 370: 2017	Qualitative
607	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Crush Test	ASTM A370: 2017	Qualitative
608	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Erichsen Cupping Test	IS 10175 (Part 1): 2012	Qualitative(Thickness : 0.1 mm to 3 mm)
609	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Erichsen Cupping Test	ISO 8490: 1986	Qualitative(Thickness : 0.1 mm to 3 mm)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
610	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Erichsen Cupping Test	ASTM A370: 2017	Qualitative(Thickness : 0.1 mm to 3 mm)
611	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Erichsen Cupping Test	ISO 20482: 2003	Qualitative(Thickness : 0.1 mm to 3 mm)
612	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Erichsen Cupping Test	ASME Sec. II part A SA 370: 2017	Qualitative(Thickness : 0.1 mm to 3 mm)
613	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flange Test	ASME Sec. II part A SA 999: 2017	Qualitative(OD : 5 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
614	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flange Test	IS 2330: 2011	Qualitative(OD : 5 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
615	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flange Test	ASTM A450: 2017	Qualitative(OD : 5 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
616	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flange Test	ASTM A370: 2017	Qualitative(OD : 5 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
617	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flange Test	ASME Sec. II part A SA 530: 2017	Qualitative(OD : 5 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
618	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flange Test	ASME Sec. II part A SA 450: 2017	Qualitative(OD : 5 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
619	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flange Test	ASTM A1016: 2017	Qualitative(OD : 5 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
620	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flange Test	ASME Sec. II part A SA 370: 2017	Qualitative(OD : 5 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
621	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flange Test	ASTM A999: 2017	Qualitative(OD : 5 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
622	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flange Test	ASME Sec. II part A SA 1016: 2017	Qualitative(OD : 5 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
623	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flange Test	ISO 8494: 1998	Qualitative(OD : 5 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
624	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flange Test	ASTM A530: 2017	Qualitative(OD : 5 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
625	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flaring Test / Drift Expansion Test	ASME Sec. II part A SA 370: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
626	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flaring Test / Drift expansion Test	ASTM A999: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
627	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flaring Test / Drift Expansion Test	ASME Sec. II part A SA 450: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
628	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flaring Test / Drift Expansion Test	ASTM A1016: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
629	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flaring Test / Drift expansion Test	ASTM A370: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
630	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flaring Test / Drift Expansion Test	ASME Sec. II part A SA 530: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
631	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flaring Test / Drift Expansion Test	IS 2335: 2005	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
632	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flaring Test / Drift Expansion Test	ASTM A450: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
633	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flaring Test / Drift Expansion Test	ASME Sec. II part A SA 999: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
634	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flaring Test / Drift Expansion Test	ISO 8493: 1998	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
635	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flaring Test / Drift Expansion Test	ASTM A530: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
636	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flaring Test / Drift Expansion Test	ASME Sec. II part A SA 1016: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
637	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening Test / Soundness test	ASME Sec. II part A SA 1016: 2017	Qualitative(OD : 6 mm to 400 mm / Wall Thickness ; 1 mm to 60 mm)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
638	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening Test / Soundness Test	ASTM A530: 2017	Qualitative(OD : 6 mm to 400 mm / Wall Thickness : 1 mm to 60 mm)
639	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening Test / Soundness Test	ASME Sec. II part A SA 370: 2017	Qualitative(OD : 6 mm to 400 mm / Wall Thickness : 1 mm to 60 mm)
640	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening Test / Soundness Test	ASTM A370: 2017	Qualitative(OD : 6 mm to 400 mm / Wall Thickness : 1 mm to 60 mm)
641	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening Test / Soundness Test	ASME Sec. II part A SA 450: 2017	Qualitative(OD : 6 mm to 400 mm / Wall Thickness : 1 mm to 60 mm)
642	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening Test / Soundness Test	ASTM A450: 2017	Qualitative(OD : 6 mm to 400 mm / Wall Thickness : 1 mm to 60 mm)
643	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening Test / Soundness Test	ASME Sec. II part A SA 530: 2017	Qualitative(OD : 6 mm to 400 mm / Wall Thickness ; 1 mm to 60 mm)
644	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening Test / Soundness Test	ASTM A1016: 2017	Qualitative(OD : 6 mm to 400 mm / Wall Thickness : 1 mm to 60 mm)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
645	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening Test / Soundness Test	ISO 8492: 1998	Qualitative(OD : 6 mm to 400 mm / Wall Thickness : 1 mm to 60 mm)
646	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening Test / Soundness Test	IS 2328: 2005	Qualitative(OD : 6 mm to 400 mm / Wall Thickness : 1 mm to 10 mm)
647	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening Test / Soundness Test	ASME Sec. II part A SA 999: 2017	Qualitative(OD : 6 mm to 400 mm / Wall Thickness : 1 mm to 60 mm)
648	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening Test / Soundness Test	ASTM A999: 2017	Qualitative(OD : 6 mm to 400 mm / Wall Thickness : 1 mm to 60 mm)
649	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Fracture Test	AWS D1.6/D1.6M: 2017	Qualitative
650	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Fracture test	IS 3600 (Part 8): 1985	Qualitative
651	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Fracture Test	ASME Sec. IX: 2015	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
652	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Fracture Test	AWS D1.1/D1.1M: 2015	Qualitative
653	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Fracture Test	ISO 9017: 2001	Qualitative
654	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Izod Impact Test (V Notch)	IS 1598: 1977	0 J to 170 J
655	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Leeb Hardness Test	ASTM A956: 2012	200 HLD to 900 HLD
656	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Proof Load Test (Nuts)	ASME Sec. II part A SA 370: 2017	Qualitative(Coarse Pitch Thread : M5 to M39 / maximum Load : Upto 1000 kN)
657	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Proof Load Test (Nuts)	ASTM A370: 2017	Qualitative(Coarse Pitch Thread : M5 to M39 / Maximum Load : Upto 1000 kN)
658	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Proof Load Test (Nuts)	IS 1367 (Part 6): 1994	Qualitative(Coarse Pitch Thread : M5 to M39 / Maximum load : Upto : 100kN)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
659	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Proof Load Test (Nuts)	ISO 898-2: 2012	Qualitative(Coarse Pitch Thread : M5 to M39 / Maximum Load : Upto 1000kN)
660	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Reverse Bend Test	ASTM A249: 2017	Qualitative
661	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Reverse Bend Test	ASME Sec. II part A SA 249: 2017	Qualitative
662	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Reverse Flattening Test	ASME Sec. II part A SA249: 2017	Qualitative
663	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Reverse Flattening Test	ASME Sec. II part A SA 450: 2017	Qualitative
664	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Reverse Flattening Test	ASTM A450: 2017	Qualitative
665	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Reverse Flattening Test	ASME Sec. II part A SA 370: 2017	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
666	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Reverse Flattening Test	ASTM A249: 2017	Qualitative
667	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Reverse Flattening Test	ASTM A370: 2017	Qualitative
668	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRA)	ISO 6508-1: 2005	60 HRA to 90 HRA
669	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRA)	ASTM A 370: 2017	60 HRA to 90 HRA
670	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRA)	ASME Sec. II Part A SA 370: 2017	60 HRA to 90 HRA
671	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRA)	IS 1586 (Part 1): 2012	60 HRA to 90 HRA
672	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRA)	ASTM E18: 2016	60 HRA to 90 HRA



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673	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRBW)	ISO 6508-1: 2005	40 HRBW to 100 HRBW
674	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRBW)	ASTM A 370: 2017	40 HRBW to 100 HRBW
675	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRBW)	IS 1586 (Part 1): 2012	40 HRBW to 100 HRBW
676	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRBW)	ASTM E18: 2017	40 HRBW to 100 HRBW
677	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRBW)	ASME Sec. II Part A SA 370: 2017	40 HRBW to 100 HRBW
678	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRC)	ASME Sec. II Part A SA 370: 2017	20 HRC to 70 HRC
679	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRC)	ASTM E18: 2016	20 HRC to 70 HRC



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Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
680	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRC)	ISO 6508-1: 2005	20 HRC to 70 HRC
681	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRC)	IS 1586 (Part 1): 2012	20 HRC to 70 HRC
682	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRC)	ASTM A370: 2017	20 HRC to 70 HRC
683	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 15N)	ISO 6508-1: 2005	65 HR 15N to 95 HR 15N
684	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 15N)	IS 1586 (Part 1): 2012	65 HR 15N to 95 HR 15N
685	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 15N)	ASTM E18: 2016	65 HR 15N to 95 HR 15N
686	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 15N)	ASME Sec. II Part A SA 370: 2017	65 HR 15N to 95 HR 15N



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
687	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 15N)	ASTM A370: 2017	65 HR 15N to 95 HR 15N
688	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 15TW)	ASME Sec. II part A SA 370: 2017	75 HR 15TW to 90 HR 15TW
689	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 15TW)	ISO 6508-1: 2005	75 HR 15TW to 90 HR 15TW
690	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 15TW)	ASTM E18: 2016	75 HR 15TW to 90 HR 15TW
691	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 15TW)	IS 1586 (Part 1): 2012	75 HR 15TW to 90 HR 15TW
692	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 15TW)	ASTM A 370: 2017	75 HR 15TW to 90 HR 15TW
693	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell superficial Hardness (HR 30N)	ISO 6508-1: 2005	40 HR 30N to 85 HR 30N



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
694	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 30N)	ASTM A370: 2017	40 HR 30N to 85 HR 30N
695	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 30N)	IS 1586 (Part 1): 2012	40 HR 30N to 85 HR 30N
696	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 30N)	ASTM E18: 2016	40 HR 30N to 85 HR 30N
697	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 30N)	ASME Sec. II Part A SA 370: 2017	40 HR 30N to 85 HR 30N
698	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 30TW)	IS 1586 (Part 1): 2012	40 HR 30TW to 85 HR 30TW
699	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 30TW)	ISO 6508-1: 2005	40 HR 30TW to 85 HR 30TW
700	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 30TW)	ASME Sec. II Part A SA 370: 2017	40 HR 30TW to 85 HR 30TW



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
701	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 30TW)	ASTM A370: 2017	40 HR 30TW to 85 HR 30TW
702	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 30TW)	ASTM E18: 2016	40 HR 30TW to 85 HR 30TW
703	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 45N)	ISO 6508-1: 2005	15 HR 45N to 75 HR 45N
704	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 45N)	ASME Sec. II part A SA 370: 2017	15 HR 45N to 75 HR 45N
705	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 45TW)	ASTM E18: 2016	10 HR 45TW to 75 HR 45TW
706	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 45TW)	ASTM A 370: 2017	10 HR 45TW to 75 HR 45TW
707	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 45TW)	IS 1586 (Part 1): 2012	10 HR 45TW to 75 HR 45TW



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
708	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness (HR 45TW)	ISO 6508-1: 2005	10 HR 45TW to 75 HR 45TW
709	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness(HR 45N)	ASTM E18: 2017	15 HR 45N to 75 HR 45N
710	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness(HR 45N)	ASTM A370: 2017	15 HR 45N to 75 HR 45N
711	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness(HR 45N)	IS 1586 (Part 1): 2012	15 HR 45N to 75 HR 45N
712	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Superficial Hardness(HR 45TW)	ASME Sec. II Part A SA 370: 2017	10 HR 45TW to 75 HR 45TW
713	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Shear Load Test	ASME Sec. II part A SA 263: 2017	Qualitative
714	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Shear Load Test	ASTM A263: 2017	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
715	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Shear Load Test	ASME Sec. II part A SA 264: 2017	Qualitative
716	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Shear Load Test	ASTM A264: 2017	Qualitative
717	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Surface Roughness Test	IS 3073: 1967	0.010 microns to 25.00 microns
718	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (0.2 % proof Stress)	ISO 5178: 2001	50 MPa to 2500 MPa
719	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (0.2 % Proof Stress)	ISO 4136: 2001	50 MPa to 2500 MPa
720	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (0.2 % Proof Stress)	AWS B4.0: 2016	50 MPa to 2500 MPa
721	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (0.2 % Proof Stress)	ASTM A370: 2017	50 MPa to 2500 MPa



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722	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (0.2 % Proof Stress)	ASME Sec. II part A SA 370: 2017	50 MPa to 2500 MPa
723	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (0.2 % Proof Stress)	ASTM E8/E8M: 2016	50 MPa to 2500 MPa
724	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (0.2 % Proof Stress)	BS EN ISO 4136: 2012	50 MPa to 2500 MPa
725	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (0.5 % Proof Stress)	ASTM A370: 2017	50 % to 2500 %
726	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (0.5 % Proof Stress)	ISO 4136: 2001	50 MPa to 2500 MPa
727	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (0.5 % Proof Stress)	AWS D1.6/D1.6M: 2017	50 MPa to 2500 MPa
728	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (0.5 % Proof Stress)	AWS D1.1/D1.1M: 2015	50 MPa to 2500 MPa



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
729	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (0.5 % Proof Stress)	ASTM E8/E8M: 2016	50 MPa to 2500 MPa
730	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (0.5 % Proof Stress)	BS EN ISO 4136: 2012	50 MPa to 2500 MPa
731	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (0.5 % Proof Stress)	IS 3600 (Part 1): 1985	50 MPa to 2500 MPa
732	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (0.5 % Proof Stress)	ISO 5178: 2001	50 MPa to 2500 MPa
733	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (0.5 % Proof Stress)	IS 3600 (Part 4): 1984	50 MPa to 2500 MPa
734	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (Yield Stress)	BS EN ISO 4136: 2012	50 MPa to 3000 MPa
735	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (Yield Stress)	AWS D1.6/D1.6M: 2017	50 MPa to 3000 MPa



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
736	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (Yield stress)	ASTM A370: 2017	50 MPa to 3000 MPa
737	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (Yield Stress)	AWS B4.0: 2016	50 MPa to 3000 MPa
738	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (Yield Stress)	ASTM E8/E8M): 2016	50 MPa to 3000 MPa
739	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Test (Yield Stress)	AWS D1.1/D1.1M: 2015	50 MPa to 3000 MPa
740	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength(upto 1000kN)	IS 3600 (Part 3): 2009	50 MPa to 5000 MPa
741	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength(upto 1000kN)	ISO 5178: 2001	50 MPa to 5000 MPa
742	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength(upto 1000kN)	DIN EN ISO 6892-1: 2016	50 MPa to 5000 MPa



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
743	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength(upto 1000kN)	AWS D1.1/D1.1M: 2015	50 MPa to 5000 MPa
744	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength(upto 1000kN)	IS 3600 (Part 1): 1985	50 MPa to 5000 MPa
745	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength(upto 1000kN)	ISO 4136: 2001	50 MPa to 5000 MPa
746	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength(upto 1000kN)	ASTM A370: 2017	50 MPa to 5000 MPa
747	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength(upto 1000kN)	BS EN ISO 4136: 2012	50 MPa to 5000 MPa
748	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength(upto 1000kN)	ISO 6892-1: 2016	50 MPa to 5000 MPa
749	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength(upto 1000kN)	ASME Sec. IX: 2017	50 MPa to 5000 MPa



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
750	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength(upto 1000kN)	BS EN ISO 6892-1: 2016	50 MPa to 5000 MPa
751	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength(upto 1000kN)	ASTM E8/8M: 2016	50 MPa to 5000 MPa
752	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength(upto 1000kN)	AWS D1.6/D1.6M: 2017	50 MPa to 5000 MPa
753	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength(upto 1000kN)	IS 1608: 2018	50 MPa to 5000 MPa
754	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength(upto 1000kN)	IS 3600 (Part 4): 1984	50 MPa to 5000 MPa
755	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength(upto 1000kN)	AWS B4.0: 2016	50 MPa to 5000 MPa
756	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength(upto 1000kN)	ASME Sec. II part A SA 370: 2017	50 MPa to 5000 MPa



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757	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 1)	BS EN ISO 6507-1: 2005	100 HV 1 to 600 HV 1
758	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 1)	ASTM A 370: 2017	100 HV 1 to 600 HV 1
759	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 1)	ISO 6507-1: 2005	100 HV 1 to 600 HV 1
760	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 1)	ASME Sec. II Part A SA 370: 2017	100 HV 1 to 600 HV 1
761	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 1)	ASTM E92: 2017	100 HV 1 to 600 HV 1
762	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 1)	IS 1501 (Part 1): 2013	100 HV 1 to 600 HV 1
763	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 10)	IS 1501 (Part 1): 2013	100 HV 10 to 600 HV 10



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764	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 10)	ASTM A370: 2017	100 HV 10 to 600 HV 10
765	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 10)	ASTM E92: 2017	100 HV 10 to 600 HV 10
766	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 10)	BS EN ISO 6507-1: 2005	100 HV 10 to 600 HV 10
767	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 10)	ASME Sec. II Part A SA 370: 2017	100 HV 10 to 600 HV 10
768	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 10)	ISO 6507-1: 2005	100 HV 10 to 600 HV 10
769	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 20)	ISO 6507-1: 2005	100 HV 20 to 600 HV 20
770	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 20)	ASTM A370: 2017	100 HV 20 to 600 HV 20



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771	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 20)	ASTM E92: 2017	100 HV 20 to 600 HV 20
772	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 20)	IS 1501 (Part 1): 2013	100 HV 20 to 600 HV 20
773	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 20)	ASME Sec. II Part A SA 370: 2017	100 HV 20 to 600 HV 20
774	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 20)	BS EN ISO 6507-1: 2005	100 HV 20 to 600 HV 20
775	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 30)	ASME Sec. II Part A SA 370: 2017	100 HV 30 to 750 HV 30
776	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 30)	IS 1501 (Part 1): 2013	100 HV 30 to 750 HV 30
777	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 30)	ASTM E92: 2017	100 HV 30 to 750 HV 30



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
778	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 30)	ASTM A370: 2017	100 HV 30 to 750 HV 30
779	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 30)	ISO 6507-1: 2005	100 HV 30 to 750 HV 30
780	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 30)	BS EN ISO 6507-1: 2005	100 HV 30 to 750 HV 30
781	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 50)	ASTM A370: 2017	100 HV 50 to 800 HV 50
782	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 50)	ISO 6507-1: 2005	100 HV 50 to 800 HV 50
783	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 50)	ASTM E92: 2017	100 HV 50 to 800 HV 50
784	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 50)	BS EN ISO 6507-1: 2005	100 HV 50 to 800 HV 50



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
785	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test (HV 50)	ASME Sec. II Part A SA 370: 2017	100 HV 50 to 800 HV 50
786	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Stress	ASME Sec. II part A SA 370: 2017	50 MPa to 3000 MPa
787	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Stress	ISO 4136: 2001	50 MPa to 3000 MPa
788	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Stress	ISO 5178: 2001	50 MPa to 3000 MPa
789	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Nickel alloys & products	Flattening Test	ASTM B775: 2017	Qualitative(OD : 6 mm to 200 mm / Wall Thickness : 1 mm to 10 mm)
790	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Nickel alloys & products	Flattening Test	ASME Sec. II part B SB775: 2017	Qualitative(OD : 6 mm to 200 mm / Wall Thickness : 1 mm to 10 mm)
791	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Nickel materials, alloys & products	Shear Load Test	ASME Sec. II part A SA 265: 2017	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
792	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Nickel materials, alloys & products	Shear Load Test	ASTM A265: 2017	Qualitative
793	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloy & products	Vickers Hardness Test (HV 1)	ASTM E384: 2016	100 HV 1 to 600 HV 1
794	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloy & products	Vickers Hardness Test (HV 5)	ASTM E92: 2017	100 HV 5 to 600 HV 5
795	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloy & products	Vickers Hardness Test (HV 5)	ISO 6507-1: 2005	100 HV 5 to 600 HV 5
796	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloy & products	Vickers Hardness Test (HV 5)	ASME Sec. II Part A SA 370: 2017	100 HV 5 to 600 HV 5
797	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloy & products	Vickers Hardness Test (HV 5)	ASTM A370: 2017	100 HV 5 to 600 HV 5
798	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloy & products	Vickers HardnessTest (HV 5)	IS 1501 (Part 1): 2013	100 HV 5 to 600 HV 5



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
799	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 1)	IS 1501 (Part 1): 2013	100 HV 1 to 600 HV 1
800	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 1)	BS EN ISO 6507-1: 2005	100 HV 1 to 600 HV 1
801	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 1)	ASME Sec. II Part A SA 370: 2017	100 HV 1 to 600 HV 1
802	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 1)	ASTM A 370: 2017	100 HV 1 to 600 HV 1
803	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 1)	ISO 6507-1: 2005	100 HV 1 to 600 HV 1
804	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 10)	BS EN ISO 6507-1: 2005	100 HV 10 to 600 HV 10
805	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 10)	ASTM E92: 2017	100 HV 10 to 600 HV 10



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
806	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 10)	IS 1501 (Part 1): 2013	100 HV 10 to 600 HV 10
807	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness test (HV 10)	ASTM A370: 2017	100 HV 10 to 600 HV 10
808	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 10)	ASME Sec. II Part A SA 370: 2017	100 HV 10 to 600 HV 10
809	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 10)	ISO 6507-1: 2005	100 HV 10 to 600 HV 10
810	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 20)	IS 1501 (Part 1): 2013	100 HV 20 to 600 HV 20
811	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 20)	ASTM E92: 2017	100 HV 20 to 600 HV 20
812	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 20)	ISO 6507-1: 2005	100 HV 20 to 600 HV 20



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
813	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 20)	ASTM A 370: 2017	100 HV 20 to 600 HV 20
814	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 20)	BS EN ISO 6507-1: 2005	100 HV 20 to 600 HV 20
815	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 20)	ASME SEc. II Part A SA 370: 2017	100 HV 20 to 600 HV 20
816	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 30)	ASME Sec. II Part A SA 370: 2017	100 HV 30 to 750 HV 30
817	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 30)	IS 1501 (Part 1): 2013	100 HV 30 to 750 HV 30
818	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 30)	BS EN ISO 6507-1: 2005	100 HV 30 to 750 HV 30
819	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 30)	ASTM A370: 2017	100 HV 30 to 750 HV 30



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
820	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 30)	ISO 6507-1: 2005	100 HV 30 to 750 HV 30
821	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 30)	ASTM E92: 2017	100 HV 30 to 750 HV 30
822	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 50)	IS 1501 (Part 1): 2013	100 HV 50 to 800 HV 50
823	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 50)	ISO 6507-1: 2005	100 HV 50 to 800 HV 50
824	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 50)	ASME Sec. II Part A SA 370: 2017	100 HV 50 to 800 HV 50
825	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 50)	ASTM E92: 2017	100 HV 50 to 800 HV 50
826	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 50)	BS EN ISO 6507-1: 2005	100 HV 50 to 800 HV 50



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
827	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 50)	ASTM A370: 2017	100 HV 50 to 800 HV 50
828	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials, alloys & products	Vickers Hardness Test (HV 1)	ASTM E92: 2017	100 HV 1 to 600 HV 1
829	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Titanium alloys & products	Flaring Test / Drift Expansion Test	ASTM B338: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
830	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Titanium alloys & products	Flaring Test / Drift Expansion Test	ASME Sec. II part B SB338: 2017	Qualitative(OD : 10 mm to 150 mm / Wall Thickness : 1 mm to 10 mm)
831	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Titanium alloys & products	Flattening Test	ASTM B338: 2017	Qualitative(OD : 6 mm to 200 mm / Wall Thickness : 0.5 mm to 10 mm)
832	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Titanium alloys & products	Flattening Test	ASME Sec. II part B SB 338: 2017	Qualitative(OD : 6 mm to 200 mm / Wall Thickness : 0.5 mm to 10 mm)
833	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Nick Break Test	IS 3600 (Part 8): 1985	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
834	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous & Non Ferrous Materials)	Vickers Hardness Test (HV 1)	BS EN ISO 9015-1: 2011	100 HV 1 to 600 HV 1
835	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous & Non Ferrous Materials)	Vickers Hardness Test (HV 1)	ASTM E92: 2017	100 HV 1 to 600 HV 1
836	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous & Non ferrous materials)	Vickers Hardness Test (HV 20)	ASTM E92: 2017	100 HV 20 to 600 HV 20
837	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous & Non ferrous materials)	Vickers Hardness Test (HV 20)	BS EN ISO 9015: 2011	100 HV 20 to 600 HV 20
838	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous & Non ferrous materials)	Vickers Hardness Test (HV 30)	BS EN ISO 9015: 2011	100 HV 30 to 750 HV 30
839	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous & Non ferrous materials)	Vickers Hardness Test (HV 30)	ASTM E92: 2017	100 HV 30 to 750 HV 30
840	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous & Non ferrous materials)	Vickers Hardness Test (HV 5)	BS EN ISO 9015-1: 2011	100 HV 5 to 600 HV 5



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
841	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous & Non ferrous materials)	Vickers Hardness Test (HV 5)	ASTM E92: 2017	100 HV 5 to 600 HV 5
842	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous & Non ferrous materials)	Vickers Hardness Test (HV 50)	ASTM E92: 2017	100 HV 50 to 800 HV 50
843	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous & Non ferrous materials)	Vickers Hardness Test (HV 50)	BS EN ISO 9015: 2011	100 HV 50 to 800 HV 50
844	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous & Non Ferrous Materials)	Vickers Hradness Test (HV 1)	ASTM E92: 2017	100 HV 1 to 600 HV 1
845	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous, Nickel Aluminium & Titanium alloys)	Ultimate Tensile Strength (upto 1000kN)	AWS D1.1/D1.1M: 2015	50 MPa to 3000 MPa
846	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous, Nickel Aluminium & Titanium alloys)	Ultimate Tensile Strength (upto 1000kN)	IS 3600 (Part 4): 1984	50 MPa to 3000 MPa
847	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous, Nickel Aluminium & Titanium alloys)	Ultimate Tensile Strength (upto 1000kN)	IS 3600 (Part 1): 1985	50 MPa to 3000 MPa



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
848	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous, Nickel Aluminium & Titanium alloys)	Ultimate Tensile Strength (upto 1000kN)	AWS B4.0: 2016	50 MPa to 3000 MPa
849	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous, Nickel Aluminium & Titanium alloys)	Ultimate Tensile Strength (upto 1000kN)	ASME Sec. IX: 2017	50 MPa to 3000 MPa
850	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous, Nickel Aluminium & Titanium alloys)	Ultimate Tensile Strength (upto 1000kN)	ISO 5178: 2001	50 MPa to 3000 MPa
851	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous, Nickel Aluminium & Titanium alloys)	Ultimate Tensile Strength (upto 1000kN)	AWS D1.6/D1.6M: 2017	50 MPa to 3000 MPa
852	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous, Nickel Aluminium & Titanium alloys)	Ultimate Tensile Strength (upto 1000kN)	BS EN ISO 4136: 2012	50 MPa to 3000 MPa
853	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous, Nickel Aluminium & Titanium alloys)	Ultimate Tensile Strength (upto 1000kN)	IS 3600 (Part 3): 2009	50 MPa to 3000 MPa
854	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous, Nickel Aluminium & Titanium alloys)	Ultimate Tensile Strength (upto 1000kN)	ISO 4136: 2001	50 MPa to 3000 MPa



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855	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens (Ferrous, Nickel Aluminium & Titanium alloys)	Ultimate Tensile Strength (upto 1000kN)	ISO 9018: 2011	50 MPa to 3000 MPa
856	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & Welded test specimens(Ferrous & Non ferrous materials)	Vickers Hardness Test (HV 10)	ASTM E92: 2017	100 HV 10 to 600 HV 10
857	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & Welded test specimens(Ferrous & Non ferrous materials)	Vickers Hardness Test (HV 10)	BS EN ISO 9015: 2011	100 HV 10 to 600 HV 10
858	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens(Ferrous & Non Ferrous Materials)	Vickers Hardness Test (HV 1)	ASTM E384: 2016	100 to 600
859	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens, Mock up assembly	Nick Break Test	IS 2825: 1969	Qualitative
860	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens, Mock up assembly	Pull Out Test	ASME Sec. VIII Division 1: 2017	Qualitative(Maximum Load : Upto 1000 kN)
861	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens, Mock up assembly	Pull Out Test	ASME Sec. IX: 2017	Qualitative(Maximum load : Upto 1000 kN)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
862	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens, Mock up assembly	Push Out Test	ASME Sec. VIII Division 1: 2017	Qualitative(Maximum Load : Upto 1000 kN)
863	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens, Mock up assembly	Push Out Test	ASME Sec. IX: 2017	Qualitative(Maximum Load : Upto 1000 kN)
864	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Case Depth Test (By Micro hardness Method)	IS 6416: 1988	0.05 mm to 10 mm
865	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Case Depth Test (By Microscopic Method)	IS 6416: 1988	0.01 mm to 1.50 mm
866	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Decarb Layer Test (Microscopic Method)	IS 6396: 2000	0.01 mm to 1.00 mm
867	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Decarb Layer Test (Microscopic Method)	ASTM E1077: 2014	0.01 mm to 1.00 mm
868	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Examination	ASTM E381: 2001	Qualitative(Magnification : 10X, 12X, 20X)
869	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Examination	ISO 6157-3: 1988	Qualitative(Magnification : 10X, 12X, 20X)
870	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Examination	ISO 6157-1: 1988	Qualitative(Magnification : 10X, 12X, 20X)



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871	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Examination	IS 11371: 1985	Qualitative(Magnification : 10X, 12X, 20X)
872	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Examination	ISO 6157-2: 1995	Qualitative(Magnification : 10X, 12X, 20X)
873	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Examination	IS 13015: 1991	Qualitative(Magnification : 10X, 12X, 20X)
874	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Examination	ASTM A561: 2017	Qualitative(Magnification : 10X, 12X, 20X)
875	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Examination	ASTM E340: 2015	Qualitative(Magnification : 10X, 12X, 20X)
876	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Micro Test (Average Grain Size by comparison method)	ASTM A247: 2016	Qualitative(Grain Size 1 to 10 by comparison method)
877	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Microscopic Examination	IS 7754: 1975	Qualitative(Magnification : 40X, 100X, 200X, 400X, 1000X)
878	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Non Metallic Inclusion Rating (Method A)	ASTM E45: 2013	Qualitative(Magnification : 100X)
879	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Non Metallic Inclusion Rating (Method A)	ISO 4967: 1998	Qualitative(Magnification : 100X)
880	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Non Metallic Inclusion Rating (Method A)	IS 4163: 2004	Qualitative(Magnification : 100X)



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881	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Non Metallic Inclusion Rating (Method B)	ASTM E45: 2013	Qualitative(Magnification : 100X)
882	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Non Metallic Inclusion Rating (Method B)	ISO 4967: 1998	Qualitative(Magnification : 100X)
883	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Non Metallic Inclusion Rating (Method B)	IS 4163: 2004	Qualitative(Magnification : 100X)
884	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macro Examination	AWS D1.1/D1.1M: 2015	Qualitative(Magnification : 10X, 12X, 20X)
885	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macro Examination	IS 3600 (Part 9): 1985	Qualitative(Magnification : 10X, 12X, 20X)
886	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macro Examination	EN ISO 17639: 2013	Qualitative(Magnification : 10X, 12X, 20X)
887	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macro Examination	AWS D1.6/D1.6M: 2017	Qualitative(Magnification : 10X, 12X, 20X)
888	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macro Examination	ASME Sec. IX: 2017	Qualitative(Magnification : 10X, 12X, 20X)
889	MECHANICAL-METALLOGRAPHY TEST	Aluminium alloys & products, Copper alloys & products	Coating Thickness Test (Elcometer Method)	IS 3203: 1982	1 microns to 500 microns



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890	MECHANICAL-METALLOGRAPHY TEST	Aluminium alloys & products, Copper alloys & products, Nickel alloys & products, Titanium alloys & products	Microscopic Examination	ASTM E112: 2017	Qualitative(40X, 100X, 200X, 400X, 1000X)
891	MECHANICAL-METALLOGRAPHY TEST	Austenitic stainless steels , Duplex stainless steels, & related alloys (Cast,Weld & Wrought Products)	Ferrite Number - By magnetic response method	ASTM A800/800M: 2014	0.1 FN to 100 FN
892	MECHANICAL-METALLOGRAPHY TEST	Austenitic stainless steels , Duplex stainless steels, & related alloys (Cast,Weld & Wrought Products)	Ferrite Percentage - By magnetic response method	ASTM A800/800M: 2014	0.1 % to 100 %
893	MECHANICAL-METALLOGRAPHY TEST	Copper materials, alloys & products	Mercurous Nitrate Test	ASTM B154: 2012	Qualitative(Detection of surface flaws)
894	MECHANICAL-METALLOGRAPHY TEST	Copper materials, alloys & products	Mercurous Nitrate Test	IS 2305: 1988	Qualitative(Detection of Surface Flaws)
895	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic & Ferritic Stainless Steels	Method A (Sodium Hydroxide Etch Test)	ASTM A923: 2014	Qualitative
896	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic & Ferritic Stainless Steels	Method B (Charpy Impact Test)	ASTM A923: 2014	0 J to 400 J



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897	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic & Ferritic Stainless Steels	Method C (Ferric Chloride Corrosion Test)	ASTM A923: 2014	Loss in weight
898	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steels	Intergranular Corrosion Test (Practice W)	ASTM A763: 2015	Qualitative(Magnification : 250X, 500X)
899	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steels	Intergranular Corrosion Test (Practice X)	ASTM A763: 2015	Loss in weight
900	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steels	Intergranular Corrosion Test (Practice Y)	ASTM A763: 2015	Loss in weight
901	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steels	Intergranular Corrosion Test (Practice Z)	ASTM A763: 2015	Qualitative(Bend former : 1T, Bend Angle : 180 Deg.)
902	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steels	Intergranular Corrosion Test (Practice Z)	ASTM A763: 2015	Qualitative(Bend Former : 4T, Bend Angle : 180 Deg.)
903	MECHANICAL-METALLOGRAPHY TEST	Ferritic, Austenitic, & Ferritic - Austenitic Stainless Steels	Intergranular Corrosion Test	ISO 3651-1: 1998	Loss in weight
904	MECHANICAL-METALLOGRAPHY TEST	Ferritic, Austenitic, & Ferritic - Austenitic Stainless Steels	Intergranular Corrosion Test	ISO 3651-2: 1998	Qualitative(Bend former : 1T, Bend Angle : 180 Deg.)
905	MECHANICAL-METALLOGRAPHY TEST	Ferrous alloys & products, Aluminium alloys & products, Copper alloys & products	Coating thickness Test (Microscopic Method)	IS 3203: 1982	10 microns to 500 microns



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906	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Coating Thickness Test (Elcometer Method)	IS 3203: 1982	1 microns to 500 microns
907	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Intergranular Corrosion Test (Practice A)	ASTM A262: 2015	Qualitative(Magnification : 250X, 400X)
908	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Intergranular Corrosion Test (Practice B)	ASTM A262: 2015	Loss in weight
909	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Intergranular Corrosion Test (Practice C)	ASTM A262: 2015	Loss in weight
910	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Intergranular Corrosion Test (Practice E)	ASTM A262: 2015	Qualitative(Bend Former : 1T, Bend Angle : 180 Deg.)
911	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Intergranular Corrosion Test (Practice E)	ASTM A262: 2015	Qualitative(Bend former : 4T, Bend Angle : 180 Deg.)
912	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Intergranular Corrosion Test (Practice F)	ASTM A262: 2015	Loss in weight
913	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Micro Test (Average grain size by comparison method)	IS 4748: 2009	Qualitative(Grain Size 1 to 10 by comparison method)
914	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Micro test (average Grain Size by comparison method)	ASTM E112: 2017	Qualitative(Grain Size 1 to 10 by comparison method)
915	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Micro Test (Average grain size by comparison method)	ISO 643: 2003	Qualitative(Grain size 1 to 10 by comparison method)



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916	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Micro Test (Average grain size by comparison method)	BS EN ISO 643 : 2003	Qualitative(Grain size 1 to 10 by comparison method)
917	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Microscopic Examination	ASM Handbook Volume 9: 2004	Qualitative(40X, 100X, 200X, 400X, 1000X)
918	MECHANICAL-METALLOGRAPHY TEST	Nickel base alloys, Chromium bearing alloys	Method C (Critical Pitting Temperature Test)	ASTM G48: 2011	Qualitative(Temperature Range : 19 Deg. C to 85 Deg. C)
919	MECHANICAL-METALLOGRAPHY TEST	Nickel base alloys, Chromium bearing alloys	Method D (Critical Crevice Temperature Test)	ASTM G48: 2011	Qualitative(Temperature Range : 0 Deg. C to 85 Deg. C)
920	MECHANICAL-METALLOGRAPHY TEST	Nickel rich , Chromium bearing alloys	Method A (Ferric Sulfate - Sulfuric Acid Test)	ASTM G28: 2002	Loss in weight
921	MECHANICAL-METALLOGRAPHY TEST	Nickel rich , Chromium bearing alloys	Method B (Mixed acid - Oxidating salt test)	ASTM G28: 2002	Loss in weight
922	MECHANICAL-METALLOGRAPHY TEST	Stainless steels	Method E (Critical Pitting Temperature Test)	ASTM G48: 2011	Qualitative(Temperature Range : 15 deg. C to 85 Deg. C)
923	MECHANICAL-METALLOGRAPHY TEST	Stainless steels	Method F (Critical Crevice Temperature Test)	ASTM G48: 2011	Qualitative(Temperature Range : 0 Deg. C to 85 Deg. C)
924	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels & related alloys	Stress corrosion Cracking Test	ASTM G36: 1994	Qualitative(Bend Angle : 180 Deg.)



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925	MECHANICAL- METALLOGRAPHY TEST	Stainless Steels with different Nickel Content	Stress Corrosion Cracking Test	ASTM G123: 2000	Qualitative(Bend Angle : 180 Deg. , Bend Former(Diameter) : 9.5 mm)
926	MECHANICAL- METALLOGRAPHY TEST	Stainless steels, Nickel base alloys, Chromium bearing alloys	Method A (Ferric chloride pitting test)	ASTM G48: 2011	Loss in weight
927	MECHANICAL- METALLOGRAPHY TEST	Stainless steels, Nickel base alloys, Chromium bearing alloys	Method B (Ferric Chloride Crevice Test)	ASTM G48: 2011	Loss in weight
928	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Charpy Impact	ISO 179: 1993	1 J to 21.9 J
929	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Charpy Impact	IS 13360 (Part 5 Section 5): 1996	1 J to 21.9 J
930	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Charpy Impact	ASTM D6110 : 2010	1 J to 21.9 J
931	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Hardness Test	IS 13360 (Part 5 Section 11): 2013	1 Shore D to 100 Shore D
932	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Hardness Test	ISO 868: 2003	1 Shore D to 100 Shore D
933	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Heat Deflection Temperature	ISO 75 (1,2,3): 2004	30 Deg. C to 300 Deg. C



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934	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Heat Deflection Temperature	IS 13360 (Part 6 Section 3 Section 17 Section 18: 2013	30 Deg. C to 300 Deg. C
935	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Heat Deflection Temperature	ASTM D648: 2016	30 Deg. C to 300 Deg. C
936	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Izod Impact	IS 13360 (Part 5 Section 4): 1996	1 J to 21.9 J
937	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Izod Impact	ASTM D256: 2010	1 J to 21.9 J
938	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Izod Impact	ISO 180: 1993	1 J to 21.9 J
939	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Melt Flow Rate	ASTM D1238: 2013	0.1 gm/10 min. to 45 gm/10 min.
940	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Melt Flow Rate	ISO 1133: 1997	0.1 gm/10 min. to 45 gm/10 min.
941	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Melt Flow Test	IS 13360 (Part 4 Section 1): 2000	0.1 gm/10 min. to 45 gm/10 min.
942	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Relative Density	IS 13360 (Part 3 Section 1): 1995	0.50 gm/cc to 4.00 gm/cc
943	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Relative Density	ASTM D792: 2013	0.50 gm/cc to 4.00 gm/cc



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944	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Relative Density	ISO 1183: 1987	0.50 gm/cc to 4.00 gm/cc
945	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Vicat Softening Temperature	ISO 306: 1994	30 Deg. C to 300 Deg. C
946	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Vicat Softening Temperature	ASTM D1525: 2009	30 Deg. C to 300 Deg. C
947	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Vicat Softening Temperature	IS 13360 (Part 6 section 1): 1999	30 Deg. C to 300 Deg. C
948	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Water Absorption	ISO 62: 1980	0.010 % to 20 %
949	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Water Absorption	IS 13360 (Part 8 Section 1): 1997	0.010 % to 20 %
950	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural rubber & products	Accelerated Aging	IS 3400 (Part 4): 2012	Qualitative
951	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural rubber & products	Compression Set	IS 3400 (Part X): 1977	0.50 % to 80.00 %
952	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural rubber & products	Compression Set	ASTM D395: 2014	0.50 % to 80.00 %
953	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural rubber & products	Effect of liquids	IS 3400 (Part 6): 2012	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
954	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural rubber & products	Effect of Liquids	ISO 1817: 2011	Qualitative
955	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural rubber & products	Elongation	IS 3400 (Part 1): 2012	50.00 % to 1200.00 %
956	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural rubber & products	Elongation	ASTM D412: 2016	50.00 % to 1200.00 %
957	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural rubber & products	Elongation	ISO 37: 2011	50.00 % to 1200.00 %
958	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural rubber & products	Hardness Test	ASTM D2240: 2015	20 Shore A to 90 Shore A
959	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural rubber & products	Hardness Test	IS 3400 (Part2): 2014	20 Shore A to 90 Shore A
960	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural rubber & products	Hardness Test	ISO 48: 2010	20 Shore A to 90 Shore A
961	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural rubber & products	Relative Density	IS 3400 (Part 9): 2014	0.50 g/cc to 3.00 g/cc
962	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural rubber & products	Relative Density	ISO 2781: 1988	0.50 g/cc to 3.00 g/cc
963	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural rubber & products	Tensile Strength	IS 3400 (Part 1): 2012	2.00 MPa to 50.00 MPa



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964	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural rubber & products	Tensile Strength	ASTM D412: 2016	2.00 MPa to 50.00 MPa
965	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural rubber & products	Tensile Strength	ISO 37: 2011	2.00 MPa to 50.00 MPa
966	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic rubber & products	Accelerated Aging	IS 3400 (Part 4): 2012	Qualitative
967	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic rubber & products	Compression Set	IS 3400 (Part X): 1977	0.50 % to 80.00 %
968	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic rubber & products	Compression Set	ASTM D395: 2014	0.50 % to 80.00 %
969	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic rubber & products	Effect of liquids	IS 3400 (Part 6): 2012	Qualitative
970	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic rubber & products	Effect of liquids	ISO 1817: 2011	Qualitative
971	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic rubber & products	Elongation	ISO 37: 2011	50.00 % to 1200.00 %
972	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic rubber & products	Elongation	IS 3400 (Part 1): 2012	50.00 % to 1200.00 %
973	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic rubber & products	Elongation	ASTM D412: 2016	50.00 % to 1200.00 %



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974	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic rubber & products	Hardness Test	ASTM D2240: 2015	20 Shore A to 90 Shore A
975	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic rubber & products	Hardness Test	IS 3400 (Part 2): 2014	20 Shore A to 90 Shore A
976	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic rubber & products	Hardness Test	ISO 48: 2010	20 Shore A to 90 Shore A
977	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic rubber & products	Relative Density	IS 3400 (Part 9): 2014	0.50 g/cc to 3.00 g/cc
978	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic rubber & products	Relative Density	ISO 2781: 1988	0.50 g/cc to 3.00 g/cc
979	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic rubber & products	Tensile Strength	IS 3400 (Part 1): 2012	2.00 MPa to 50.00 MPa
980	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic rubber & products	Tensile Strength	ASTM D412: 2016	2.00 MPa to 50.00 MPa
981	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic rubber & products	Tensile Strength	ISO 37: 2011	2.00 MPa to 50.00 MPa