



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name ACCURATE LABORATORY SERVICES, PLOT NO 71/1/B7, GENERAL BLOCK, PUNE, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5919 Page No. : 1 / 58

Validity 02/07/2019 to 01/07/2021 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
<b>Permanent Facility</b>					
1	CHEMICAL-CORROSION TESTS	Metals and Alloys	Salt Spray Test	ASTM B 117: 2018	Qualitative
2	CHEMICAL-CORROSION TESTS	Metals and Alloys	Salt Spray Test	ISO 9227: 2017	Qualitative
3	CHEMICAL-CORROSION TESTS	Metals and Alloys	Salt Spray Test	IS 6910:1985 : 2016	Qualitative
4	CHEMICAL-METALLIC COATINGS & TREATMENT SOLUTIONS	Magnetic Electrically Conductive Substrate Metals	Coating Thickness	ASTM E 376: 2017	Qualitative
5	CHEMICAL-METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Iron & Steel	Mass of coating (Stripping Method)	ASTM A 90: 2013	10 GSM to 2000 GSM
6	CHEMICAL-METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Iron & Steel	Mass of coatings (Stripping method)	IS 6745 - 1972 : 2016	10 GSM to 2000 GSM
7	CHEMICAL- METALS & ALLOYS	Alloy Steel	Aluminium	IS: 8811: 1998: 2018	0.005 % to 1.10 %
8	CHEMICAL- METALS & ALLOYS	Alloy Steel	Aluminium	ASTM E 415: 2017	0.005 % to 1.10 %
9	CHEMICAL- METALS & ALLOYS	Alloy Steel	Arsenic	ASTM E 415: 2017	0.0005 % to 0.09 %
10	CHEMICAL- METALS & ALLOYS	Alloy Steel	Arsenic	IS: 8811: 1998: 2018	0.0005 % to 0.090 %
11	CHEMICAL- METALS & ALLOYS	Alloy Steel	Boron	IS: 8811: 1998 : 2018	0.0005 % to 0.050 %



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12	CHEMICAL- METALS & ALLOYS	Alloy Steel	Boron	ASTM E 415: 2017	0.0005 % to 0.05 %
13	CHEMICAL- METALS & ALLOYS	Alloy Steel	Calcium	ASTM E 415: 2017	0.0001 % to 0.005 %
14	CHEMICAL- METALS & ALLOYS	Alloy Steel	Calcium	IS: 8811: 1998: 2018	0.0001 % to 0.005 %
15	CHEMICAL- METALS & ALLOYS	Alloy Steel	Carbon	IS 228 Pt 1:1987 : 2018	0.05 % to 2.5 %
16	CHEMICAL- METALS & ALLOYS	Alloy Steel	Carbon	ASTM E 415: 2017	0.010 % to 1.50 %
17	CHEMICAL- METALS & ALLOYS	Alloy Steel	Carbon	IS: 8811: 1998 : 2018	0.01 % to 1.5 %
18	CHEMICAL- METALS & ALLOYS	Alloy Steel	Carbon	ASTM E 1019: 2018	0.05 % to 2.5 %
19	CHEMICAL- METALS & ALLOYS	Alloy Steel	Chromium	IS: 8811: 1998 : 2018	0.03 % to 5.0 %
20	CHEMICAL- METALS & ALLOYS	Alloy Steel	Chromium	ASTM E 415: 2017	0.03 % to 5.0 %
21	CHEMICAL- METALS & ALLOYS	Alloy Steel	Chromium	IS 228 Pt 6:1987 : 2014	0.10 % to 6.0 %
22	CHEMICAL- METALS & ALLOYS	Alloy Steel	Cobalt	IS: 8811: 1998 : 2018	0.009 % to 0.20 %
23	CHEMICAL- METALS & ALLOYS	Alloy Steel	Cobalt	ASTM E 415: 2017	0.009 % to 0.20 %
24	CHEMICAL- METALS & ALLOYS	Alloy Steel	Copper	IS 228 Pt 15:1992: 2014	0.05 % to 5.0 %
25	CHEMICAL- METALS & ALLOYS	Alloy Steel	Copper	IS: 8811: 1998 : 2018	0.03 % to 0.4 %



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26	CHEMICAL- METALS & ALLOYS	Alloy Steel	Copper	ASTM E 415: 2017	0.03 % to 0.4 %
27	CHEMICAL- METALS & ALLOYS	Alloy steel	Lead	IS: 8811: 1998 : 2018	0.02 % to 0.30 %
28	CHEMICAL- METALS & ALLOYS	Alloy Steel	Lead	ASTM E 415: 2017	0.02 % to 0.30 %
29	CHEMICAL- METALS & ALLOYS	Alloy Steel	Manganese	ASTM E 415: 2017	0.10 % to 2.0 %
30	CHEMICAL- METALS & ALLOYS	Alloy Steel	Manganese	IS 228 Pt 2:1987 : 2018	0.05 % to 1.50 %
31	CHEMICAL- METALS & ALLOYS	Alloy Steel	Manganese	IS: 8811: 1998 : 2018	0.10 % to 2.0 %
32	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	IS 228 Pt 7:1990 : 2018	1.5 % to 2.5 %
33	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	IS 228 Pt 10:1989 : 2014	0.01 % to 1.50 %
34	CHEMICAL- METALS & ALLOYS	Alloy steel	Molybdenum	IS: 8811: 1998 : 2018	0.010 % to 1.50 %
35	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	ASTM E 415: 2017	0.010 % to 1.50 %
36	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nickel	ASTM E 415: 2017	0.04 % to 4.0 %
37	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nickel	IS 228 Pt 5:1987 : 2014	0.1 % to 36.0 %
38	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nickel	IS: 8811: 1998 : 2018	0.04 % to 4.0 %
39	CHEMICAL- METALS & ALLOYS	Alloy Steel	Niobium	IS: 8811: 1998 : 2018	0.004 % to 0.10 %



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40	CHEMICAL- METALS & ALLOYS	Alloy Steel	Niobium	ASTM E 415: 2017	0.004 % to 0.10 %
41	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nitrogen	ASTM E 415: 2017	0.002 % to 0.010 %
42	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nitrogen	IS: 8811: 1998 : 2018	0.002 % to 0.010 %
43	CHEMICAL- METALS & ALLOYS	Alloy Steel	Phosphorus	IS 228 Pt 3:1987 : 2018	0.01 % to 0.10 %
44	CHEMICAL- METALS & ALLOYS	Alloy Steel	Phosphorus	IS: 8811: 1998 : 2018	0.009 % to 0.10 %
45	CHEMICAL- METALS & ALLOYS	Alloy Steel	Phosphorus	ASTM E 415: 2017	0.009 % to 0.10 %
46	CHEMICAL- METALS & ALLOYS	Alloy Steel	Silicon	IS 228 Pt 8:1989: 2014	0.05 % to 5.0 %
47	CHEMICAL- METALS & ALLOYS	Alloy Steel	Silicon	IS: 8811: 1998 : 2018	0.002 % to 2.0 %
48	CHEMICAL- METALS & ALLOYS	Alloy Steel	Silicon	ASTM E 415: 2017	0.002 % to 2.0 %
49	CHEMICAL- METALS & ALLOYS	Alloy Steel	Sulphur	ASTM E 415: 2017	0.0012 % to 0.40 %
50	CHEMICAL- METALS & ALLOYS	Alloy Steel	Sulphur	IS: 8811: 1998 : 2018	0.0012 % to 0.40 %
51	CHEMICAL- METALS & ALLOYS	Alloy Steel	Sulphur	ALS:SOP:5 – TM 503 Issue No 2 : 2010	0.01 % to 0.25 %
52	CHEMICAL- METALS & ALLOYS	Alloy Steel	Sulphur	ASTM E 1019: 2018	0.01 % to 0.25 %
53	CHEMICAL- METALS & ALLOYS	Alloy Steel	Tin	IS: 8811: 1998 : 2018	0.006 % to 0.10 %



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54	CHEMICAL- METALS & ALLOYS	Alloy Steel	Tin	ASTM E 415: 2017	0.006 % to 0.10 %
55	CHEMICAL- METALS & ALLOYS	Alloy Steel	Titanium	ASTM E 415: 2017	0.002 % to 0.10 %
56	CHEMICAL- METALS & ALLOYS	Alloy Steel	Titanium	IS: 8811: 1998 : 2018	0.002 % to 0.10 %
57	CHEMICAL- METALS & ALLOYS	Alloy Steel	Tungsten	ALS:SOP:5 – TM 504 Issue No 2 : 2010	0.10 % to 0.23 %
58	CHEMICAL- METALS & ALLOYS	Alloy Steel	Tungsten	ASTM E 415: 2017	0.007 % to 3.0 %
59	CHEMICAL- METALS & ALLOYS	Alloy Steel	Tungsten	IS: 8811: 1998 : 2018	0.007 % to 3.00 %
60	CHEMICAL- METALS & ALLOYS	Alloy Steel	Vanadium	ASTM E 415: 2017	0.002 % to 1.0 %
61	CHEMICAL- METALS & ALLOYS	Alloy Steel	Vanadium	IS: 8811: 1998: 2018	0.002 % to 1.0 %
62	CHEMICAL- METALS & ALLOYS	Alloy Steel	Vanadium	ALS:SOP:5 – TM 505 Issue No 2: 2010	0.05 % to 2.0 %
63	CHEMICAL- METALS & ALLOYS	Alloy Steel	Zirconium	ASTM E 415: 2017	0.0001 % to 0.5 %
64	CHEMICAL- METALS & ALLOYS	Alloy Steel	Zirconium	IS: 8811: 1998: 2018	0.0001 % to 0.5 %
65	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	ASTM E 34: 2011	0.02 % to 0.3 %
66	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	IS: 504: 2002 Part 8: 2018	0.02 % to 0.3 %
67	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	IS 11035:1984 : 2014	0.01 % to 0.312 %





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68	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	ASTM E 1251: 2017	0.01 % to 0.312 %
69	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	IS 11035:1984 : 2014	0.01 % to 5.0 %
70	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	IS: 504: 2002 Part 3 : 2018	0.10 % to 4.0 %
71	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E 34: 2011	0.05 % to 4.0 %
72	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E 1251: 2017	0.01 % to 5.0 %
73	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E 1251: 2017	0.05 % to 1.5 %
74	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E 34: 2011	0.05 % to 3.0 %
75	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	IS: 504: 2002 Part 2: 2018	0.10 % to 3.0 %
76	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	IS 11035:1984: 2014	0.05 % to 1.5 %
77	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	IS: 504: 2002 Part 1: 2018	0.05 % to 1.0 %
78	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	IS 11035:1984: 2014	0.03 % to 1.0 %
79	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E 1251: 2017	0.03 % to 1.0 %
80	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E 34: 2011	0.05 % to 1.0 %
81	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E 1251: 2017	0.03 % to 6.0 %



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82	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E 34: 2011	0.05 % to 5.50 %
83	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	IS: 504: 2002 Part 6: 2018	0.05 % to 5.50 %
84	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	IS 11035:1984: 2014	0.03 % to 6.0 %
85	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	IS 11035:1984: 2014	0.04 % to 1.0 %
86	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E 1251: 2017	0.04 % to 1.0 %
87	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E 34: 2011	0.05 % to 1.5 %
88	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	IS: 504: 2002 Part 5: 2018	0.10 % to 1.50 %
89	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	IS: 504: 2002 Part 7: 2018	0.05 % to 4.0 %
90	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	IS 11035:1984: 2014	0.02 % to 1.5 %
91	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E 1251: 2017	0.02 % to 1.5 %
92	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E 34: 2011	0.05 % to 4.0 %
93	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	IS: 504: 2002 Part 1: 2018	0.3 % to 13.0 %
94	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	IS 11035:1984: 2014	0.10 % to 13.0 %
95	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E 1251: 2017	0.10 % to 13.0 %



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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
96	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E 34: 2011	0.3 % to 13.0 %
97	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Strontium	ASTM E 1251: 2017	0.01 % to 0.032 %
98	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Strontium	IS 11035:1984: 2014	0.01 % to 0.032 %
99	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E 1251: 2017	0.01 % to 0.24 %
100	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	IS 11035:1984: 2014	0.01 % to 0.24 %
101	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E 1251: 2017	0.01 % to 0.18 %
102	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	IS 11035:1984: 2014	0.01 % to 0.18 %
103	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	IS: 504: 2002 Part 4: 2018	0.10 % to 7.0 %
104	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E 1251: 2017	0.03 % to 8.0 %
105	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	IS 11035:1984: 2014	0.03 % to 8.0 %
106	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E 34: 2011	0.05 % to 7.0 %
107	CHEMICAL- METALS & ALLOYS	Cast & Pig Iron	Carbon	IS 12308 Pt 11:1991 : 2018	1.5 % to 4.5 %
108	CHEMICAL- METALS & ALLOYS	Cast & Pig Iron	Carbon	ASTM E 1019: 2018	1.5 % to 4.5 %
109	CHEMICAL- METALS & ALLOYS	Cast & Pig iron	Chromium	IS 12308 Pt 8:1997 : 2018	0.10 % to 28.0 %





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110	CHEMICAL- METALS & ALLOYS	Cast & Pig iron	Copper	IS 12308 Pt 12:1992 : 2018	0.01 % to 0.50 %
111	CHEMICAL- METALS & ALLOYS	Cast & Pig Iron	Manganese	IS 12308 Pt 10:1991 : 2018	0.05 % to 7.0 %
112	CHEMICAL- METALS & ALLOYS	Cast & Pig Iron	Molybdenum	ASTM E 350: 2018	0.05 % to 1.50 %
113	CHEMICAL- METALS & ALLOYS	Cast & Pig Iron	Nickel	IS 12308 Pt 7:1991 : 2018	0.50 % to 36.0 %
114	CHEMICAL- METALS & ALLOYS	Cast & Pig Iron	Phosphorus	IS 12308 Pt 5:1991 : 2018	0.01 % to 0.50 %
115	CHEMICAL- METALS & ALLOYS	Cast & Pig Iron	Silicon	IS 12308 Pt 6:1991 : 2018	0.10 % to 6.0 %
116	CHEMICAL- METALS & ALLOYS	Cast & Pig Iron	Sulphur	ALS:SOP:05 – TM 503: 2010	0.01 % to 0.25 %
117	CHEMICAL- METALS & ALLOYS	Cast & Pig Iron	Sulphur	ASTM E 1019: 2018	0.01 % to 0.25 %
118	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium	ASTM E1999: 2018	0.008 % to 0.030 %
119	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium	IS: 15338: 2003 : 2018	0.008 % to 0.030 %
120	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS: 15338: 2003 : 2018	2.5 % to 4.5 %
121	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E1999: 2018	2.5 % to 4.5 %
122	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E1999: 2018	0.025 % to 1.0 %
123	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS: 15338: 2003 : 2018	0.025 % to 1.0 %



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124	CHEMICAL- METALS & ALLOYS	Cast Iron	Cobalt	IS: 15338: 2003 : 2018	0.013 % to 0.50 %
125	CHEMICAL- METALS & ALLOYS	Cast Iron	Cobalt	ASTM E1999: 2018	0.013 % to 0.50 %
126	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS: 15338: 2003 : 2018	0.020 % to 2.0 %
127	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E1999: 2018	0.02 % to 2.0 %
128	CHEMICAL- METALS & ALLOYS	Cast Iron	Lead	ASTM E1999: 2018	0.02 % to 0.03 %
129	CHEMICAL- METALS & ALLOYS	Cast Iron	Lead	IS: 15338: 2003 : 2018	0.02 % to 0.03 %
130	CHEMICAL- METALS & ALLOYS	Cast Iron	Magnesium	IS: 15338: 2003 : 2018	0.03 % to 0.06 %
131	CHEMICAL- METALS & ALLOYS	Cast Iron	Magnesium	ASTM E1999: 2018	0.03 % to 0.06 %
132	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E1999: 2018	0.05 % to 1.0 %
133	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS: 15338: 2003 : 2018	0.05 % to 1.0 %
134	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	IS: 15338: 2003 : 2018	0.01 % to 1.0 %
135	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E1999: 2018	0.01 % to 1.0 %
136	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E1999: 2018	0.02 % to 1.0 %
137	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS: 15338: 2003 : 2018	0.02 % to 1.0 %



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138	CHEMICAL- METALS & ALLOYS	Cast Iron	Niobium	ASTM E1999: 2018	0.02 % to 0.035 %
139	CHEMICAL- METALS & ALLOYS	Cast Iron	Niobium	IS: 15338: 2003 : 2018	0.02 % to 0.035 %
140	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS: 15338: 2003 : 2018	0.01 % to 0.3 %
141	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E1999: 2018	0.01 % to 0.3 %
142	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS: 15338: 2003 : 2018	1.0 % to 5.0 %
143	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999: 2018	1.0 % to 5.0 %
144	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	IS: 15338: 2003 : 2018	0.01 % to 0.25 %
145	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1999: 2018	0.01 % to 0.25 %
146	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	IS: 15338: 2003 : 2018	0.010 % to 0.20 %
147	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	ASTM E1999: 2018	0.01 % to 0.20 %
148	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	ASTM E1999: 2018	0.04 % to 0.12 %
149	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	IS: 15338: 2003 : 2018	0.04 % to 0.12 %
150	CHEMICAL- METALS & ALLOYS	Cast Iron	Tungsten	ASTM E1999: 2018	0.03 % to 0.05 %
151	CHEMICAL- METALS & ALLOYS	Cast Iron	Tungsten	IS: 15338: 2003 : 2018	0.03 % to 0.05 %



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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
152	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	IS: 15338: 2003 : 2018	0.007 % to 0.04 %
153	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	ASTM E1999: 2018	0.007 % to 0.04 %
154	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	ALS:SOP:5 – TM 502 Issue No 2 : 2010	0.05 % to 10.0 %
155	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	ALS:SOP:5 – TM 502 Issue No 2: 2010	0.05 % to 0.10 %
156	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	BS EN 15079 : 2015	0.006 % to 11.0 %
157	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Aluminium	ALS: SOP: 02 Issue No 1 : 2008	0.006 % to 11.0 %
158	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	BS EN 15079: 2015	0.01 % to 0.5 %
159	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Antimony	ALS: SOP: 02 Issue No 1 : 2008	0.01 % to 0.50 %
160	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Arsenic	BS EN 15079: 2015	0.01 % to 0.064 %
161	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Arsenic	ALS: SOP: 02 Issue No 1 : 2008	0.01 % to 0.064 %
162	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Chromium	BS EN 15079: 2015	0.026 % to 0.034 %
163	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Chromium	ALS: SOP: 02 Issue No 1 : 2008	0.026 % to 0.034 %
164	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cobalt	BS EN 15079: 2015	0.02 % to 0.17 %
165	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cobalt	ALS: SOP: 02 Issue No 1 : 2008	0.02 % to 0.17 %



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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
166	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	IS: 440: 1964 : 2018	50.0 % to 99.99 %
167	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	IS: 4027: 1987 : 2018	50 % to 99.99 %
168	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Copper	IS: 4027: 1987 (Part 1): 2018	50 % to 99.99 %
169	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	IS: 3685: 1966: 2018	0.05 % to 18.0 %
170	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	BS EN 15079: 2015	0.04 % to 5.0 %
171	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	IS: 4027: 1987 (Part 8): 2018	0.1 % to 6.0 %
172	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	IS: 3685: 1966 : 2018	0.1 % to 6.0 %
173	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	ALS: SOP: 02 Issue No 1 : 2008	0.04 % to 5.0 %
174	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	BS EN 15079: 2015	0.02 % to 16.0 %
175	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	ALS: SOP: 02 Issue No 1 : 2008	0.02 % to 16.0 %
176	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	IS: 4027 (Part 1) : 1987 : 2018	0.05 % to 18.0 %
177	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	IS: 440: 1964 : 2018	0.05 % to 18.0 %
178	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	ALS: SOP: 02 Issue No 1 : 2008	0.03 % to 3.1 %
179	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	IS: 3685: 1966 : 2018	0.05 % to 1.0 %





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180	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	BS EN 15079: 2015	0.03 % to 3.10 %
181	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	BS EN 15079: 2015	0.05 % to 11.0 %
182	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	IS: 3685: 1966 : 2018	0.05 % to 5.0 %
183	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	ALS: SOP: 02 Issue No 1 : 2008	0.05 % to 11.0 %
184	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	ALS: SOP: 02 Issue No 1 : 2008	0.02 % to 1.0 %
185	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	IS: 3685: 1966 : 2018	0.05 % to 1.0 %
186	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	BS EN 15079: 2015	0.02 % to 1.0 %
187	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	IS: 4027: 1987 (Part 3): 2018	0.05 % to 1.0 %
188	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	IS: 3685: 1966 : 2018	0.05 % to 2.0 %
189	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	IS: 4027: 1987 (Part 10): 2018	0.05 % to 2.0 %
190	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	BS EN 15079: 2015	0.03 % to 1.80 %
191	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	ALS: SOP: 02 Issue No 1 : 2008	0.03 % to 1.80 %
192	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Sulphur	ALS: SOP: 02 Issue No 1 : 2008	0.02 % to 0.09 %
193	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Sulphur	BS EN 15079: 2015	0.02 % to 0.09 %



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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
194	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	IS: 3685: 1966 : 2018	0.05 % to 12.0 %
195	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	ALS: SOP: 02 Issue No 1 : 2008	0.05 % to 13.0 %
196	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	BS EN 15079: 2015	0.05 % to 13.0 %
197	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	IS: 4027: 1987 (Part 5): 2018	0.05 % to 12.0 %
198	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	IS: 3685: 1966 : 2018	0.05 % to 36.0 %
199	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	ALS: SOP: 02 Issue No 1 : 2008	0.05 % to 45.0 %
200	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	IS: 4027: 1987 (Part 6): 2018	0.05 % to 36.0 %
201	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	BS EN 15079: 2015	0.05 % to 45.0 %
202	CHEMICAL- METALS & ALLOYS	Ferrous & Non Ferrous Alloys	Cobalt	ASTM E 1476 - 04: 2014	Qualitative
203	CHEMICAL- METALS & ALLOYS	Ferrous & Non Ferrous Alloys	Copper	ASTM E 1476 - 04 : 2014	Qualitative
204	CHEMICAL- METALS & ALLOYS	Ferrous & Non Ferrous alloys	Zinc	ASTM E 1476-04: 2014	Qualitative
205	CHEMICAL- METALS & ALLOYS	Ferrous & NonFerrous	Antimony	ASTM E 1476 - 04 : 2014	Qualitative
206	CHEMICAL- METALS & ALLOYS	Ferrous & NonFerrous	Titanium	ASTM E 1476 - 04 : 2014	Qualitative
207	CHEMICAL- METALS & ALLOYS	Ferrous & Nonferrous Alloys	Lead	ASTM E 1476 - 04 : 2014	Qualitative



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208	CHEMICAL- METALS & ALLOYS	Ferrous & Non-Ferrous Alloys	Chromium	ASTM E 1476 - 04 : 2014	Qualitative
209	CHEMICAL- METALS & ALLOYS	Ferrous & Non-ferrous alloys	Iron	ASTM E 1476 - 04 : 2014	Qualitative
210	CHEMICAL- METALS & ALLOYS	Ferrous & Non-Ferrous Alloys	Manganese	ASTM E 1476 - 04 : 2014	Qualitative
211	CHEMICAL- METALS & ALLOYS	Ferrous & Non-ferrous Alloys	Molybdenum	ASTM E 1476 - 04 : 2014	Qualitative
212	CHEMICAL- METALS & ALLOYS	Ferrous & Non-ferrous Alloys	Nickel	ASTM E 1476 - 04 : 2014	Qualitative
213	CHEMICAL- METALS & ALLOYS	Ferrous & Non-ferrous Alloys	Niobium	ASTM E 1476 - 04 : 2014	Qualitative
214	CHEMICAL- METALS & ALLOYS	Ferrous & non-ferrous alloys	Silver	ASTM E 1476 - 04 : 2014	Qualitative
215	CHEMICAL- METALS & ALLOYS	Ferrous & Non-ferrous Alloys	Tin	ASTM E 1476 - 04 : 2014	Qualitative
216	CHEMICAL- METALS & ALLOYS	Ferrous & Non-ferrous Alloys	Tungsten	ASTM E 1476 - 04 : 2014	Qualitative
217	CHEMICAL- METALS & ALLOYS	Ferrous & Non-ferrous Alloys	Vanadium	ASTM E 1476 - 04 : 2014	Qualitative
218	CHEMICAL- METALS & ALLOYS	Ferrous & Non-Ferrous Alloys	Zirconium	ASTM E 1476 - 04 : 2014	Qualitative
219	CHEMICAL- METALS & ALLOYS	Ferrous & non-ferrous metal	Bismuth	ASTM E 1476 - 04 : 2014	Qualitative
220	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminium	ALS: SOP: 07 Issue No 1 : 2016	0.15 % to 3.50 %
221	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Boron	ALS: SOP: 07 Issue No 1 : 2016	0.0009 % to 0.004 %



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222	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Calcium	ALS: SOP: 07 Issue No 1 : 2016	0.0001 % to 0.005 %
223	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Carbon	ALS: SOP: 07 Issue No 1 : 2016	0.01 % to 0.20 %
224	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	ALS: SOP: 07 Issue No 1 : 2016	0.05 % to 23.0 %
225	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt	ALS: SOP: 07 Issue No 1 : 2016	0.025 % to 0.25 %
226	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper	ALS: SOP: 07 Issue No 1 : 2016	0.02 % to 31.0
227	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron	ALS: SOP: 07 Issue No 1 : 2016	0.80 % to 21.0 %
228	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Lead	ALS: SOP: 07 Issue No 1 : 2016	0.005 % to 0.07 %
229	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Magnesium	ALS: SOP: 07 Issue No 1 : 2016	0.0008 % to 0.011 %
230	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	ALS: SOP: 07 Issue No 1 : 2016	0.04 % to 0.70 %
231	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	ALS: SOP: 07 Issue No 1 : 2016	2.5 % to 11.0 %
232	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Niobium	ALS: SOP: 07 Issue No 1 : 2016	3.5 % to 5.5 %
233	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Phosphorus	ALS: SOP: 07 Issue No 1 : 2016	0.001 % to 0.01 %
234	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon	ALS: SOP: 07 Issue No 1 : 2016	0.05 % to 0.30 %
235	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Sulphur	ALS: SOP: 07 Issue No 1 : 2016	0.001 % to 0.010 %



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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
236	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tin	ALS: SOP: 07 Issue No 1: 2016	0.0001 % to 0.5 %
237	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	ALS: SOP: 07 Issue No 1 : 2016	0.020 % to 1.00 %
238	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tungsten	ALS: SOP: 07 Issue No 1 : 2016	0.001 % to 5.00 %
239	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Vanadium	ALS: SOP: 07 Issue No 1 : 2016	0.001 % to 0.10 %
240	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Zinc	ALS: SOP: 07 Issue No 1: 2016	0.003 % to 0.40 %
241	CHEMICAL- METALS & ALLOYS	Nickel and Its Alloys	Zirconium	ALS: SOP: 07 Issue No 1 : 2016	0.02 % to 0.04 %
242	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E 1086: 2014	0.01 % to 0.25 %
243	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS: 9879: 1998 : 2015	0.01 % to 0.25 %
244	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS: 9879: 1998 : 2015	10 % to 26 %
245	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E 1086: 2014	10 % to 26 %
246	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	IS: 9879: 1998 : 2015	0.02 % to 0.5 %
247	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	ASTM E 1086: 2014	0.02 % to 0.5 %
248	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS: 9879: 1998 : 2015	0.04 % to 5.0 %
249	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E 1086: 2014	0.04 % to 5.0 %





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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
250	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E 1086: 2014	0.1 % to 10.0 %
251	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS: 9879: 1998 : 2015	0.1 % to 10.0 %
252	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E 1086: 2014	0.05 % to 4.0 %
253	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS: 9879: 1998 : 2015	0.05 % to 4.0 %
254	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS: 9879: 1998 : 2015	1.5 % to 22.50 %
255	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E 1086: 2014	1.5 % to 22.50 %
256	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	IS: 9879: 1998 : 2015	0.006 % to 0.35 %
257	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	ASTM E 1086: 2014	0.006 % to 0.35 %
258	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	ASTM E 1086: 2014	0.01 % to 0.35 %
259	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	IS: 9879: 1998 : 2015	0.01 % to 0.35 %
260	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS: 9879: 1998 : 2015	0.013 % to 0.4 %
261	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E 1086: 2014	0.013 % to 0.40 %
262	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E 1086: 2014	0.20 % to 1.50 %
263	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS: 9879: 1998 : 2015	0.20 % to 1.50 %



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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
264	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS: 9879: 1998 : 2015	0.004 % to 0.30 %
265	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E 1086: 2014	0.004 % to 0.30 %
266	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tantalum	IS: 9879: 1998: 2015	0.03 % to 0.55 %
267	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tantalum	ASTM E 1086: 2014	0.03 % to 0.55 %
268	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	ASTM E 1086: 2014	0.002 % to 0.75 %
269	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	IS: 9879: 1998 : 2015	0.002 % to 0.75 %
270	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tungsten	IS: 9879: 1998 : 2015	0.003 % to 3.0 %
271	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tungsten	ASTM E1086: 2014	0.003 % to 3.0 %
272	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	ASTM E 1086: 2014	0.05 % to 0.10 %
273	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	IS: 9879: 1998 : 2015	0.05 % to 0.10 %
274	CHEMICAL- METALS & ALLOYS	Stainless Steel, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel Iron Alloys	Carbon	IS 228 Pt 1:1987 : 2018	0.01 % to 0.25 %
275	CHEMICAL- METALS & ALLOYS	Stainless Steel, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel Iron Alloys	Carbon	ASTM E 1019: 2018	0.01 % to 0.25 %



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276	CHEMICAL- METALS & ALLOYS	Stainless Steel, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel Iron Alloys	Chromium	ASTM E353 Section 212: 2014	10 % to 25 %
277	CHEMICAL- METALS & ALLOYS	Stainless Steel, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel Iron Alloys	Copper	ASTM E353: Section 82: 2014	0.1 % to 1.50 %
278	CHEMICAL- METALS & ALLOYS	Stainless Steel, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel Iron Alloys	Manganese	ASTM E353:Section 8: 2014	0.1 % to 2.0 %
279	CHEMICAL- METALS & ALLOYS	Stainless Steel, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel Iron Alloys	Molybdenum	ASTM E353:Section 190: 2014	0.10 % to 4.5 %
280	CHEMICAL- METALS & ALLOYS	Stainless Steel, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel Iron Alloys	Nickel	ASTM E353:Section 172: 2014	0.10 % to 25.0 %
281	CHEMICAL- METALS & ALLOYS	Stainless Steel, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel Iron Alloys	Phosphorus	ASTM E353:Section 164: 2014	0.01 % to 0.04 %



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282	CHEMICAL- METALS & ALLOYS	Stainless Steel, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel Iron Alloys	Silicon	ASTM E353:Section 46: 2014	0.2 % to 0.8 %
283	CHEMICAL- METALS & ALLOYS	Stainless Steel, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel Iron Alloys	Sulphur	ASTM E 1019: 2018	0.002 % to 0.03 %
284	CHEMICAL- METALS & ALLOYS	Stainless Steel, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel Iron Alloys	Sulphur	ALS:SOP:5 – TM 503 Issue No 2 : 2010	0.002 % to 0.03 %
285	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	ALS:SOP:06 Issue No 1 : 2010	0.30 % to 2.10 %
286	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	ALS:SOP:06 Issue No 1 : 2010	3.5 % to 12.5 %
287	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	ALS:SOP:06 Issue No 1 : 2010	0.10 % to 5.50 %
288	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	ALS:SOP:06 Issue No 1 : 2010	0.15 % to 0.80 %
289	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	ALS:SOP:06 Issue No 1 : 2010	0.05 % to 6.0 %
290	CHEMICAL- METALS & ALLOYS	Tool Steel	Nickel	ALS:SOP:06 Issue No 1 : 2010	0.05 % to 0.25 %
291	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	ALS:SOP:06 Issue No 1 : 2010	0.020 % to 0.05 %



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292	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	ALS:SOP:06 Issue No 1 : 2010	0.20 % to 0.60 %
293	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	ALS:SOP:06 Issue No 1 : 2010	0.010 % to 0.05 %
294	CHEMICAL- METALS & ALLOYS	Tool Steel	Tin	ALS:SOP:06 Issue No 1 : 2010	0.010 % to 0.020 %
295	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	ALS:SOP:06 Issue No 1 : 2010	0.05 % to 20.0 %
296	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	ALS:SOP:06 Issue No 1 : 2010	0.10 % to 2.50 %
297	CHEMICAL- METALS & ALLOYS	Zinc & alloys	Aluminium	IS: 4027: PART 10: 2000	0.1 % to 10.0 %
298	CHEMICAL- METALS & ALLOYS	Zinc & alloys	Aluminium	ALS: SOP: 04 Issue No 1 : 2010	0.01 % to 5.0 %
299	CHEMICAL- METALS & ALLOYS	Zinc & alloys	Cadmium	ALS: SOP: 04 Issue No 1 : 2010	0.001 % to 0.007 %
300	CHEMICAL- METALS & ALLOYS	Zinc & alloys	Copper	ALS: SOP: 04 Issue No 1 : 2010	0.003 % to 1.00 %
301	CHEMICAL- METALS & ALLOYS	Zinc & alloys	Copper	IS: 4027: PART 1 : 1987	0.1 % to 1.0 %
302	CHEMICAL- METALS & ALLOYS	Zinc & alloys	Iron	ALS: SOP: 04 Issue No 1 : 2010	0.001 % to 0.084 %
303	CHEMICAL- METALS & ALLOYS	Zinc & alloys	Iron	IS: 4027: PART 8 : 1981	0.50 % to 1.0 %
304	CHEMICAL- METALS & ALLOYS	Zinc & alloys	Lead	ALS: SOP: 04 Issue No 1 : 2010	0.001 % to 0.010 %
305	CHEMICAL- METALS & ALLOYS	Zinc & alloys	Lead	IS: 4027: Part 1 1987: 2018	0.10 % to 0.50 %





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306	CHEMICAL- METALS & ALLOYS	Zinc & alloys	Magnesium	ALS: SOP: 04 Issue No 1 : 2010	0.01 % to 0.060 %
307	CHEMICAL- METALS & ALLOYS	Zinc & alloys	Nickel	IS: 4027: PART 4 :1987: 2018	0.01 % to 0.20 %
308	CHEMICAL- METALS & ALLOYS	Zinc & alloys	Nickel	ALS: SOP: 04 Issue No 1 : 2010	0.001 % to 0.010 %
309	CHEMICAL- METALS & ALLOYS	Zinc & alloys	Silicon	IS: 4027: PART 10 : 2018	0.1 % to 0.20 %
310	CHEMICAL- METALS & ALLOYS	Zinc & alloys	Tin	ALS: SOP: 04 Issue No 1 : 2010	0.001 % to 0.0048 %
311	CHEMICAL- METALS & ALLOYS	Zinc & alloys	Titanium	ALS: SOP: 04 Issue No 1 : 2010	0.001 % to 0.03 %
312	CHEMICAL- PLASTIC & RESINS	Plastic & Plastic product	Filler Content	ASTM D 5630: 2013	0.20 % to 50.0 %
313	CHEMICAL- PLASTIC & RESINS	Plastic and Plastic Products	Density	ASTM D 792: 2013	0.4 gm/cc to 5 gm/cc
314	CHEMICAL- PLASTIC & RESINS	Plastic and Plastic Products	Hardness in Shore 'D'	ASTM D 2240: 2015	10 Shore D to 90 Shore D
315	CHEMICAL- PLASTIC & RESINS	Plastic and Plastic Products	Specific Gravity	ASTM D 792: 2013	0.4 to 5.0
316	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber Products	Ash Content	IS 3400 Part 22: 2013	0.20 % to 50.0 %
317	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber and Rubber Products	Accelerated Ageing in air	IS 3400 (Part 4):: 2017	Qualitative
318	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber and Rubber Products	Accelerated Ageing in air	ASTM D 573:2004: 2015	Qualitative



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319	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber and Rubber Products	Elongation at Break	IS 3400 (Part 1): 2017	10 % to 1000 %
320	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber and Rubber Products	Elongation at Break	ASTM D 412: 2016	10 % to 1000 %
321	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber and Rubber Products	Tensile Properties	IS 3400 (Part 1): 2017	2 MPa to 5 MPa
322	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber and Rubber Products	Tensile Properties	ASTM D 412: 2016	2 MPa to 5 MPa
323	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber Products	Ash Content	ASTM D 297: 2015	0.20 % to 50.0 %
324	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber Products	Identification of rubber (By Spot test of pyrolysis product)CR,NBR,SBR and NR	IS 3400 Part 22:1984: 2013	Qualitative
325	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium and Aluminium Alloys Weldments for procedure and performance qualifications	Welding Procedures and Performances	IS 7273:1974: 2013	Qualitative
326	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Components and Assemblies	Breaking/Push/Pull Load Test ( 0 to 800kN)	ASTM E8/E9: 2018	Qualitative



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327	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous - Pipes & Tubes	Bend Test	ASTM A 370: 2018	Qualitative
328	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous - Pipes & Tubes	Bend Test	ASME SECTION II- A:SA 370: 2017	Qualitative
329	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous - Pipes & Tubes	Crushing( 0 to 800kN)	IS 3601:2006: 2017	Qualitative
330	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous - Pipes & Tubes	Crushing( 0 to 800kN)	ASTM A 370: 2018	Qualitative
331	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous - Pipes & Tubes	Crushing( 0 to 800kN)	ASME SECTION II- A:SA 370: 2017	Qualitative
332	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous - Pipes & Tubes	Flairing/Drift	IS 2335:2005: 2017	Qualitative
333	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous - Pipes & Tubes	Flairing/Drift	ISO 8493:1998: 2014	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
334	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous - Pipes & Tubes	Flairing/Drift	ASTM A 370: 2018	Qualitative
335	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous - Pipes & Tubes	Flairing/Drift	ASME SECTION II- A:SA 370: 2017	Qualitative
336	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous - Pipes & Tubes	Flattening Test	IS 2328: 2018	Qualitative
337	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous - Pipes & Tubes	Flattening Test	ASTM A 370: 2018	Qualitative
338	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous - Pipes & Tubes	Flattening Test	ASTM A 530: 2018	Qualitative
339	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous - Pipes & Tubes	Flattening Test	ASME SECTION II- A:SA 370: 2017	Qualitative
340	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	%Elongation	IS 1608 Part 1: 2018	1 % to 85 %



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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
341	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	%Elongation	ISO 6892-1 : 2016	1 % to 85 %
342	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	%Elongation	ASTM A 370: 2018	1 % to 85 %
343	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	%Elongation	ASME SECTION II- A:SA 370: 2017	1 % to 85 %
344	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	%Elongation	ASTM E 8: 2018	1 % to 85 %
345	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	%RA	IS 1608 Part 1: 2018	10 % to 85 %
346	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	%RA	ISO 6892-1: 2016	10 % to 85 %
347	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	%RA	ASTM A 370: 2018	10 % to 85 %





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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
348	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	%RA	ASTM E 8: 2018	10 % to 85 %
349	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	%RA	ASME SECTION II- A:SA 370: 2017	10 to 85
350	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	0.2% Proof Stress	ASTM A 370: 2018	0 kN to 400 kN
351	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	0.2% Proof Stress	ASTM A 370: 2018	20 kN to 1000 kN
352	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	0.2% Proof Stress	ASTM E 8: 2018	0 to 400
353	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	0.2% Proof Stress	ASTM E 8: 2018	20 kN to 1000 kN
354	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	0.2% Proof Stress	ASME SECTION II- A:SA 370: 2017	0 kN to 400 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
355	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	0.2% Proof Stress	ASME SECTION II- A:SA 370: 2017	20 kN to 1000 kN
356	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Bend Test	ASTM E 290: 2014	Qualitative
357	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Bend Test	IS 1599:2012 : 2017	Qualitative
358	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Bend Test	ISO 7438: 2016	Qualitative
359	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Bend Test	ASTM A 370: 2018	Qualitative
360	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Bend Test	ASME SECTION II- A:SA 370: 2017	Qualitative
361	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Brinell Hardness-HBW	IS 1500 Part 1: 2013	95 HBW to 400 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
362	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Brinell Hardness-HBW	ISO 6506-1: 2014	95 HBW to 400 HBW
363	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Brinell Hardness-HBW	ASTM A370: 2018	95 HBW to 400 HBW
364	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Brinell Hardness-HBW	ASTM E10: 2018	95 HBW to 400 HBW
365	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Brinell Hardness-HBW	ASME SECTION II- A:SA 370: 2017	95 HBW to 400 HBW
366	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Charpy Impact	IS 1757 Part 1: 2014	2 J to 300 J
367	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Charpy Impact	ISO 148-1: 2016	2 J to 300 J
368	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Charpy Impact	ASTM A 370: 2018	2 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
369	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Charpy Impact	ASTM E 23: 2018	2 J to 300 J
370	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Charpy Impact	ASME SECTION II- A:SA 370: 2017	2 J to 300 J
371	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Charpy Impact	IS 1499:1977: 2015	2 J to 300 J
372	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR15N	IS 1586 Part 1: 2018	70 HR15N to 94 HR15N
373	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR15N	ISO 6508-1: 2016	70 HR15N to 94 HR15N
374	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR15N	ASTM A 370: 2018	70 HR15N to 94 HR15N
375	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR15N	ASTM E 18: 2018	70 HR15N to 94 HR15N



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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
376	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR15N	ASME SECTION II- A:SA 370: 2017	70 HR15N to 94 HR15N
377	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR15TW	IS 1586 Part 1: 2018	67 HR15TW to 93 HR15TW
378	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR15TW	ISO 6508-1: 2016	67 HR15TW to 93 HR15TW
379	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR15TW	ASTM A 370: 2018	67 HR15TW to 93 HR15TW
380	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR15TW	ASTM E 18: 2018	67 HR15TW to 93 HR15TW
381	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR15TW	ASME SECTION II- A:SA 370: 2017	67 HR15TW to 93 HR15TW
382	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR30N	IS 1586 Part 1: 2018	42 HR30N to 90 HR30N





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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
383	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR30N	ISO 6508-1: 2016	42 HR30N to 90 HR30N
384	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR30N	ASTM A 370: 2018	42 HR30N to 90 HR30N
385	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR30N	ASTM E 18: 2018	42 HR30N to 90 HR30N
386	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR30N	ASME SECTION II- A:SA 370: 2017	42 HR30N to 90 HR30N
387	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR30TW	IS 1586 Part 1: 2018	29 HR30TW to 82 HR30TW
388	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR30TW	ISO 6508-1: 2016	29 HR30TW to 82 HR30TW
389	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR30TW	ASTM A 370: 2018	29 HR30TW to 82 HR30TW



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390	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR30TW	ASTM E 18: 2018	29 HR30TW to 82 HR30TW
391	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR30TW	ASME SECTION II- A:SA 370: 2017	29 HR30TW to 82 HR30TW
392	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR45N	IS 1586 Part 1: 2018	25 HR45N to 70 HR45N
393	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR45N	ISO 6508-1: 2016	25 HR45N to 70 HR45N
394	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR45N	ASTM A 370: 2018	25 HR45N to 70 HR45N
395	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR45N	ASTM E 18: 2018	25 HR45N to 70 HR45N
396	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR45N	ASME SECTION II- A:SA 370: 2017	25 HR45N to 70 HR45N



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397	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR45TW	IS 1586 Part 1: 2018	41 HR45TW to 72 HR45TW
398	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR45TW	ISO 6508-1: 2016	41 HR45TW to 72 HR45TW
399	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR45TW	ASTM A 370: 2018	41 HR45TW to 72 HR45TW
400	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR45TW	ASTM E 18: 2018	41 HR45TW to 72 HR45TW
401	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HR45TW	ASME SECTION II- A:SA 370: 2017	41 HR45TW to 72 HR45TW
402	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HRA	IS 1586 Part 1: 2018	20 HRA to 88 HRA
403	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell hardness- HRA	ISO 6508-1: 2016	20 HRA to 88 HRA



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404	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell hardness- HRA	ASTM A 370: 2018	20 HRA to 88 HRA
405	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell hardness- HRA	ASTM E 18: 2018	20 HRA to 88 HRA
406	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HRA	ASME SECTION II- A:SA 370: 2017	20 HRA to 88 HRA
407	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HRBW	IS 1586 Part 1: 2018	20 HRB to 100 HRB
408	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HRBW	ISO 6508-1: 2016	20 HRB to 100 HRB
409	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HRBW	ASTM A 370: 2018	20 HRB to 100 HRB
410	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HRBW	ASTM E 18: 2016	20 HRB to 100 HRB



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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
411	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HRBW	ASME SECTION II- A:SA 370: 2017	20 HRB to 100 HRB
412	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HRC	IS 1586 Part 1: 2018	20 HRC to 70 HRC
413	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HRC	ISO 6508-1: 2016	20 HRC to 70 HRC
414	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HRC	ASTM A 370: 2018	20 HRC to 70 HRC
415	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HRC	ASME SECTION II- A:SA 370: 2017	20 HRC to 70 HRC
416	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Rockwell Hardness- HRC	ASTM E 18: 2018	20 HRC to 70 HRC
417	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Surface Roughness Measurement	IS 3073: 1967	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
418	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Tensile Strength	ASTM A 370: 2018	0 kN to 400 kN
419	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Tensile Strength	ASTM A 370: 2018	20 kN to 1000 kN
420	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Tensile Strength	ASTM E 8: 2016	0 kN to 400 kN
421	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Tensile Strength	ASTM E 8: 2016	20 kN to 1000 kN
422	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Tensile Strength	ASME SECTION II- A:SA 370: 2017	0 kN to 400 kN
423	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Tensile Strength	ASME SECTION II- A:SA 370: 2017	20 kN to 1000 kN
424	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	UTS, YS	ASTM A 370: 2018	0 kN to 400 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
425	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	UTS, YS	ASTM A 370: 2018	20 kN to 1000 kN
426	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	UTS, YS	ASTM E 8: 2016	0 kN to 400 kN
427	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	UTS, YS	ASTM E 8: 2016	20 kN to 1000 kN
428	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	UTS, YS	ASME SECTION II- A:SA 370: 2017	0 kN to 400 kN
429	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	UTS, YS	ASME SECTION II- A:SA 370: 2017	20 kN to 1000 kN
430	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Hardness-HV 10	IS 1501 Part 1: 2013	100 HV to 700 HV
431	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Hardness-HV 10	ISO 6507-1: 2018	100 HV to 700 HV



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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
432	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Hardness-HV 10	ASTM A 370: 2018	100 HV to 700 HV
433	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Hardness-HV 10	ASTM E 92: 2017	100 HV to 700 HV
434	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Hardness-HV 10	ASME SECTION II- A:SA 370: 2017	100 HV to 700 HV
435	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Hardness-HV 30	IS 1501 Part 1: 2013	100 HV to 700 HV
436	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Hardness-HV 30	ISO 6507-1: 2018	100 HV to 700 HV
437	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Hardness-HV 30	ASTM A 370: 2018	100 HV to 700 HV
438	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Hardness-HV 30	ASTM E 92: 2017	100 HV to 700 HV



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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
439	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Hardness-HV 30	ASME SECTION II- A:SA 370: 2017	100 HV to 700 HV
440	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Hardness-HV 5	ASTM E 92: 2017	100 HV to 700 HV
441	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Hardness-HV 5	IS 1501 Part 1: 2013	100 HV to 700 HV
442	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Hardness-HV 5	ISO 6507-1: 2018	100 HV to 700 HV
443	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Hardness-HV 5	ASTM A 370: 2018	100 HV to 700 HV
444	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Hardness-HV 5	ASME SECTION II- A:SA 370: 2017	100 HV to 700 HV
445	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Micro Hardness-HV 0.1	IS 1501 Part 1: 2013	100 HV to 700 HV



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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
446	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Micro Hardness-HV 0.1	ISO 6507-1: 2018	100 HV to 700 HV
447	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Micro Hardness-HV 0.1	ASTM A 370: 2018	100 HV to 700 HV
448	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Micro Hardness-HV 0.1	ASTM E 384: 2017	100 HV to 700 HV
449	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Micro Hardness-HV 0.1	ASME SECTION II- A:SA 370: 2017	100 HV to 700 HV
450	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Micro Hardness-HV 0.5	IS 1501 Part 1: 2013	100 HV to 700 HV
451	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Micro Hardness-HV 0.5	ISO 6507-1: 2018	100 HV to 700 HV
452	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Micro Hardness-HV 0.5	ASTM A 370: 2018	100 HV to 700 HV





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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	Ferrous & Non Ferrous Metals and Alloys	Vickers Micro Hardness-HV 0.5	ASTM E 384: 2017	100 HV to 700 HV
454	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Micro Hardness-HV 0.5	ASME SECTION II- A:SA 370: 2017	100 HV to 700 HV
455	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Micro Hardness-HV 1	IS 1501 Part 1: 2013	100 HV to 700 HV
456	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Micro Hardness-HV 1	ISO 6507-1: 2018	100 HV to 700 HV
457	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Micro Hardness-HV 1	ASTM A 370: 2018	100 HV to 700 HV
458	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Micro Hardness-HV 1	ASTM E 384: 2017	100 HV to 700 HV
459	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals and Alloys	Vickers Micro Hardness-HV 1	ASME SECTION II- A:SA 370: 2017	100 HV to 700 HV



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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
460	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Bend Test	ISO 9606-1:2012/Cor 2: 2013	Qualitative
461	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Bend Test	ASME SEC IX: 2017	Qualitative
462	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Bend Test	ASTM E190: 2014	Qualitative
463	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Bend Test	ISO 5173:2010+A1: 2011	Qualitative
464	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Bend Test	IS 3600-5:1983: 2010	Qualitative
465	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Bend Test	IS 3600-6:1983: 2013	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
466	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Bend Test	IS 3600-7:1985: 2013	Qualitative
467	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Charpy Impact Test	ASME SEC IX: 2017	2 J to 300 J
468	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Charpy Impact Test	IS 3600-2:1985: 2013	2 J to 300 J
469	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Charpy Impact Test	ISO 9016: 2012	2 J to 300 J
470	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Charpy Impact Test	ASME SEC IX: 2017	50 HV to 700 HV
471	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Fracture Test	ISO 9606-1:2012/Cor 2: 2013	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
472	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Fracture Test	ISO 9017: 2017	Qualitative
473	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Fracture Test	ASME SEC IX: 2017	Qualitative
474	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Fracture Test	AWS D1.1: 2015	Qualitative
475	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Fracture Test	ISO 15614-1: 2017	Qualitative
476	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Fracture Test	ISO 3600-8: 2013	Qualitative
477	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	HV 1	ASME SEC IX: 2017	100 HV to 700 HV



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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
478	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	HV 1	AWS D1.1: 2015	100 HV to 700 HV
479	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	HV 1	AWS D1.2: 2008	100 HV to 700 HV
480	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	HV 1	EN 1043-1: 1995	100 HV to 700 HV
481	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	HV 1	ISO 9015-1: 2017	100 HV to 700 HV
482	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	HV 10	AWS D1.2: 2008	100 HV to 700 HV
483	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	HV 10	ASME SEC IX: 2017	100 HV to 700 HV





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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
484	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	HV 10	AWS D1.1: 2015	100 HV to 700 HV
485	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	HV 10	EN 1043-1: 1995	100 HV to 700 HV
486	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	HV 10	ISO 9015-1: 2017	100 HV to 700 HV
487	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	HV 5	ASME SEC IX: 2017	100 HV to 700 HV
488	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	HV 5	AWS D1.1: 2015	100 HV to 700 HV
489	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	HV 5	AWS D1.2: 2008	100 HV to 700 HV



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490	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	HV 5	EN 1043-1: 1995	100 HV to 700 HV
491	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	HV 5	ISO 9015-1: 2017	100 HV to 700 HV
492	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Transverse Tensile	ASME SEC IX: 2017	Qualitative
493	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Transverse Tensile	AWS D1.1: 2015	Qualitative
494	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Transverse Tensile	AWS D1.2: 2008	Qualitative
495	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Transverse Tensile	ASTM A370: 2018	Qualitative



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496	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Transverse Tensile	ASME SECTION II- A:SA 370: 2017	Qualitative
497	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Transverse Tensile	EN 895: 1995	Qualitative
498	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Transverse Tensile	ISO 4136: 2012	Qualitative
499	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Transverse Tensile	ISO 15614-1: 2017	Qualitative
500	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Transverse Tensile	IS 3600-3: 2009	Qualitative
501	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Transverse Tensile	IS 3600-4:1984: 2011	Qualitative



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502	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Welders Qualification/Performance	IS 7310 Part 1(Table-1): 1974	Qualitative
503	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications	Welding Procedures	IS 7307 Part (Table-1): 1974	Qualitative
504	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Izod Impact	IS 1598: 1977	2 J to 168 J
505	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Portable Hardness Test (Leeb Hardness)	ASTM A 956: 2017	80,50,20,32 HV,HB,HRC,HRB to 900,500,68,99 HV,HB,HRC,HRB
506	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Non-Ferrous Nuts	Proof Load Test	ISO 898-2: 2012	Qualitative
507	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Non-Ferrous Bolt	Proof Load Test	ISO 898-1: 2013	Qualitative
508	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Non-Ferrous Bolts and nuts	Proof Load Test	IS 1367 (Part 3):2002: 2007	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
509	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Non-Ferrous Bolts and nuts	Proof Load Test	IS 1367 (Part 6):2002: 2015	Qualitative
510	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Non-Ferrous Bolts and nuts	Proof Load Test	ASTM F 606: 2016	Qualitative
511	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Non-Ferrous materials Springs	Spring Rate	IS 7906:Part 1: 2004	Qualitative
512	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Non-Ferrous materials Springs	Spring Rate	IS 7906:Part 7:1989: 2014	Qualitative
513	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Non-Ferrous materials, alloys & products	Hardenability	IS 3848: 1981	Qualitative
514	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Non-Ferrous materials, alloys & products	Hardenability	ASTM A255: 2014	Qualitative
515	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Non-Ferrous Sheet materials	Erichsen Cup Test	IS 10175: 2018	0.2 mm to 2.00 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
516	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Non-Ferrous Sheet materials	Erichsen Cup Test	ISO 20482:2013: 2013	0.20 mm to 2.00 mm
517	MECHANICAL- METALLOGRAPHY TEST	Cast Irons/Grey Irons/Malleable Iron/Ductile Iron/ SG Iron	Microstructure	IS 7754: 1975	Qualitative
518	MECHANICAL- METALLOGRAPHY TEST	Cast Irons/Grey Irons/Malleable Iron/Ductile Iron/ SG Iron	Microstructure	ASM Metal Handbook Vol 9: 2004	Qualitative
519	MECHANICAL- METALLOGRAPHY TEST	Cast Irons/Grey Irons/Malleable Iron/Ductile Iron/ SG Iron	Microstructure	ASTM A 247: 2017	Qualitative
520	MECHANICAL- METALLOGRAPHY TEST	Cast Irons/Grey Irons/Malleable Iron/Ductile Iron/ SG Iron	Microstructure	ISO 945-1: 2017	Qualitative
521	MECHANICAL- METALLOGRAPHY TEST	Duplex Austenitic/Ferritic Stainless Steels	Detecting Detrimental Intermetallic Phase	ASTM A 923 (Method A,B,C): 2014	Qualitative
522	MECHANICAL- METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals	Coating thickness by Microscopical method	IS 3203: 1982	Qualitative
523	MECHANICAL- METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals	Coating thickness by Microscopical method	ISO 1463: 2003	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
524	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals	Coating thickness by Microscopical method	ASTM B 487: 2013	Qualitative
525	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals	Estimation of Grain Size by Microscopic method	IS 4748: 2009	Qualitative
526	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals	Estimation of Grain Size by Microscopic method	ISO 643: 2012	Qualitative
527	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals	Estimation of Grain Size by Microscopic method	ASTM E112: 2013	Qualitative
528	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals	Macro Structural AnalysisFor Ferrous	ASTM E 340: 2015	Qualitative
529	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals	Micro structural Analysis	ASM Metal Handbook - Volume 9 : 2004	Qualitative
530	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications (Plates and Pipes)	Macro Test	ASME SEC IX: 2017	Qualitative
531	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications (Plates and Pipes)	Macro Test	EN 1321: 1997	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
532	MECHANICAL- METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications (Plates and Pipes)	Macro Test	ISO 17639: 2014	Qualitative
533	MECHANICAL- METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals Weldments for procedure and performance qualifications (Plates and Pipes)	Macro Test	IS 3600-9:1985: 2013	Qualitative
534	MECHANICAL- METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals, Steel Bars, Billets, Blooms, Forging of Carbon and Low Alloys Steel	Macro Structural Analysis	IS 11371:1985: 2018	Qualitative
535	MECHANICAL- METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals, Steel Bars, Billets, Blooms, Forging of Carbon and Low Alloys Steel	Macro Structural Analysis	IS 13015:1991: 2018	Qualitative
536	MECHANICAL- METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals, Steel Bars, Billets, Blooms, Forging of Carbon and Low Alloys Steel	Macro Structural Analysis	ASTM E 381: 2017	Qualitative
537	MECHANICAL- METALLOGRAPHY TEST	Multiphase Metals and Alloys	Determination of volume Fraction of Phases	ASTM E 562: 2011	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
538	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Huey Test	IS 10461-1:1994 : 2016	Qualitative
539	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Huey Test	ISO 3651-1:1998: 2016	Qualitative
540	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Intergranular Corrosion TestPractice - A	ASTM A 262: 2015	Qualitative
541	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Intergranular Corrosion TestPractice - B	ASTM A262: 2015	1 mpy to 10000 mpy
542	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Intergranular Corrosion TestPractice - E	ASTM A 262: 2015	Qualitative
543	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Intergranular Corrosion TestPractice - F	ASTM A 262: 2015	Qualitative
544	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	MonyPenny Strauss Test	ISO 3651-2:1998: 2016	Qualitative
545	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	MonyPenny Strauss Test	ISO 10461-2: 1994	Qualitative
546	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel, Duplex Stainless Steel and Related Alloys	Pitting And Crevice Corrosion Resistance	ASTM G 48 (Method A, B): 2011	Qualitative
547	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of Depth of Decarburized Layer	IS 6396: 2000	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
548	MECHANICAL-METALLOGRAPHY TEST	Steels	Determination of Depth of Decarburized Layer	ASTM E 1077: 2014	Qualitative
549	MECHANICAL-METALLOGRAPHY TEST	Steels	Inclusion Rating(A,B,C,D,DS)(A, B,C,D)	IS 4163 (Method A): 2004	Qualitative
550	MECHANICAL-METALLOGRAPHY TEST	Steels	Inclusion Rating(A,B,C,D,DS)(A, B,C,D)	ISO 4967 (Method A): 2013	Qualitative
551	MECHANICAL-METALLOGRAPHY TEST	Steels	Inclusion Rating(A,B,C,D,DS)(A, B,C,D)	ASTM E45 (Method A): 2018	Qualitative
552	MECHANICAL-METALLOGRAPHY TEST	Steels	Measurement of Case Depth By Micro hardness method	IS 6416: 1988	100 HV to 800 HV
553	MECHANICAL-METALLOGRAPHY TEST	Steels	Measurement of Case Depth By Micro hardness method	ISO 2639: 2002	100 HV to 800 HV
554	MECHANICAL-METALLOGRAPHY TEST	Wrought Nickel, Rich Chromium Bearing Alloys	Detecting Susceptibility to Intergranular Corrosion Practice - A	ASTM G 28: 2015	Qualitative
555	MECHANICAL-METALLOGRAPHY TEST	Wrought Nickel, Rich Chromium Bearing Alloys	Detecting Susceptibility to Intergranular Corrosion Practice - B	ASTM G28: 2015	Qualitative