National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory Name	METALAB (INDUSTRIAL LABORATORY), PLOT NO 10, SURVEY NO 47, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5118	Page No. :	1 / 71
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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
Permanent Facility					
1	CHEMICAL-CORROSION TESTS	All Metals & Alloys	Salt Spray Test	ASTM B117: 2016	Qualitative(Upto 40 deg C)
2	CHEMICAL-CORROSION TESTS	All Metals & Alloys	Salt Spray Tests	DIN EN ISO 9227: 2017	Qualitative(Upto 40 deg C)
3	CHEMICAL-CORROSION TESTS	Electroplated and Anodized Aluminium Coatings	Salt Spray Neutral Test	IS 9844 1981: 2016	Qualitative(Upto 40 deg C)
4	CHEMICAL-HAZARDOUS & RESTRICTED CHEMICALS	Metals & Alloys	Bromine	IEC 62321-3-1: 2013	10 mg/kg to 700 mg/kg
5	CHEMICAL-HAZARDOUS & RESTRICTED CHEMICALS	Metals & Alloys	Cadmium	IEC 62321-3-1: 2013	10 mg/kg to 700 mg/kg
6	CHEMICAL-HAZARDOUS & RESTRICTED CHEMICALS	Metals & Alloys	Chromium	IEC 62321-3-1: 2013	10 mg/kg to 700 mg/kg
7	CHEMICAL-HAZARDOUS & RESTRICTED CHEMICALS	Metals & Alloys	Hexavalent Chromium	ASTM D6492 1999 RA: 2016	Qualitative
8	CHEMICAL-HAZARDOUS & RESTRICTED CHEMICALS	Metals & Alloys	Lead	IEC 62321-3-1: 2013	10 mg/kg to 700 mg/kg

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9	CHEMICAL-HAZARDOUS & RESTRICTED CHEMICALS	Metals & Alloys	Mercury	IEC 62321-3-1: 2013	10 mg/kg to 700 mg/kg
10	CHEMICAL-HAZARDOUS & RESTRICTED CHEMICALS	Plastics	Bromine	IEC 62321-3-1: 2013	10 mg/kg to 700 mg/kg
11	CHEMICAL-HAZARDOUS & RESTRICTED CHEMICALS	Plastics	Cadmium	IEC 62321-3-1: 2013	10 mg/kg to 700 mg/kg
12	CHEMICAL-HAZARDOUS & RESTRICTED CHEMICALS	Plastics	Chromium	IEC 62321-3-1: 2013	10 mg/kg to 700 mg/kg
13	CHEMICAL-HAZARDOUS & RESTRICTED CHEMICALS	Plastics	Lead	IEC 62321-3-1: 2013	10 mg/kg to 700 mg/kg
14	CHEMICAL-HAZARDOUS & RESTRICTED CHEMICALS	Plastics	Mercury	IEC 62321-3-1: 2013	10 mg/kg to 700 mg/kg
15	CHEMICAL-METALLIC COATINGS & TREATMENT SOLUTIONS	All Metals and Alloys	Plating/Coating Identication	MET/TP-C/31 02 June 17: 2015	Qualitative(N.A.)

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16	CHEMICAL-METALLIC COATINGS & TREATMENT SOLUTIONS	All Metals and Alloys	Plating/Coating Identication	MET/TP-C/31 02 June 17: 2015	Qualitative(N.A.)
17	CHEMICAL-METALLIC COATINGS & TREATMENT SOLUTIONS	Aluminium & its Alloys	Anodic Coating	IS 6012 1992 RA: 2016	2 Microns to 40 Microns
18	CHEMICAL-METALLIC COATINGS & TREATMENT SOLUTIONS	Aluminium & its Alloys	Anodic Coating	IS 5523 1983 RA: 2016	2 Microns to 40 Microns
19	CHEMICAL-METALLIC COATINGS & TREATMENT SOLUTIONS	Aluminium & its Alloys	Anodic Coating	IS 6012 1992 RA: 2016	2 Microns to 40 Microns
20	CHEMICAL-METALLIC COATINGS & TREATMENT SOLUTIONS	Aluminium & its Alloys	Anodic Coating	IS 5523 1983 RA: 2016	2 Microns to 40 Microns
21	CHEMICAL-METALLIC COATINGS & TREATMENT SOLUTIONS	Copper Alloys and Zinc Alloys	Chromate Conversion Coating on Zinc and Cadmium Coated Articles	IS 8602 1977 RA: 2016	Qualitative(N.A.)
22	CHEMICAL-METALLIC COATINGS & TREATMENT SOLUTIONS	Copper Alloys and Zinc Alloys	Chromate Conversion Coating on Zinc and Cadmium Coated Articles	IS 8602 1977 RA: 2016	Qualitative(N.A.)

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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
23	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Iron & Steel Alloys	Mass Of Phosphating Coating	IS 3618 1966 RA: 2016	0.10 g/m² to 60 g/m²
24	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Iron & Steel Alloys	Mass Of Phosphating Coating	IS 3618 1966 RA: 2016	0.10 g/m² to 60 g/m²
25	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Iron & Steel Alloys	Mass Of Zinc Coating	IS 6745 1972 RA: 2016	3 g/m² to 350 g/m²
26	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Iron & Steel Alloys	Mass Of Zinc Coating	ASTM A90A90M 2013 RA: 2018	3 g/m² to 350 g/m²
27	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Iron & Steel Alloys	Mass Of Zinc Coating	IS 6745 1972 RA: 2016	3 g/m² to 350 g/m²
28	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Iron & Steel Alloys	Mass Of Zinc Coating	ASTM A90A90M 2013 RA: 2018	3 g/m² to 350 g/m²
29	CHEMICAL- METALS & ALLOYS	All Metals and Alloys	Density	MET/TP-C/030 02 July 10: 2014	0.1 g/cc to 20 g/cc
30	CHEMICAL- METALS & ALLOYS	All Metals and Alloys	Density	MET/TP-C/030 02 July 10: 2014	0.1 g/cc to 20 g/cc
31	CHEMICAL- METALS & ALLOYS	All Metals and Alloys	Tungsten	MET/TP-C/018 02 July 10: 2014	0.10 % to 20 %

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32	CHEMICAL- METALS & ALLOYS	All Metals and Alloys	Tungsten	MET/TP-C/018 02 July 10: 2014	0.10 % to 20 %
33	CHEMICAL- METALS & ALLOYS	All Metals and Alloys	Tungsten	MET/TP-C/018 02 July 10: 2014	0.10 % to 20 %
34	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Antimony	MET/TP-C/032 02 July 25: 2016	0.003 % to 0.007 %
35	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Bismuth	MET/TP-C/032 02 July 25: 2016	0.006 % to 0.20 %
36	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Cadmium	MET/TP-C/032 02 July 25: 2016	0.001 % to 0.020 %
37	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Chromium	ASTM E 3061: 2017	0.005 % to 1.0 %
38	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Chromium	ASTM E1251 A: 2017	0.01 % to 0.40 %
39	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Chromium	MET/TP-C/021 02 July 10: 2014	0.005 % to 1.0 %
40	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Chromium	MET/TP-C/032 02 July 25: 2016	0.01 % to 0.35 %
41	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Chromium	ASTM E 3061: 2017	0.005 % to 1.0 %
42	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	ASTM E 3061: 2017	0.002 % to 6.0 %
43	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	ASTM E1251 A: 2017	0.005 % to 6.10 %
44	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	MET/TP-C/021 02 July 10: 2014	0.002 % to 6.0 %
45	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Copper	MET/TP-C/032 02 July 25: 2016	0.005 % to 6.0 %

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46	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	ASTM E 3061: 2017	0.002 % to 6.0 %
47	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	ASTM E 3061: 2017	0.005 % to 5.0 %
48	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	ASTM E 1251: A: 2017	0.01 % to 4.30 %
49	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	MET/TP-C/021 02 July 10: 2014	0.005 % to 5.0 %
50	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Iron	MET/TP-C/032: 2016	0.027 % to 3.90 %
51	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	ASTM E 3061: 2017	0.005 % to 5.0 %
52	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Lead	ASTM E 3061: 2017	0.001 % to 0.5 %
53	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Lead	ASTM E1251: A: 2017	0.003 % to 0.45 %
54	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Lead	MET/TP-C/021 02 July 10: 2014	0.001 % to 0.5 %
55	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Lead	MET/TP-C/032 02 July 25: 2016	0.002 % to 0.40 %
56	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Lead	ASTM E 3061: 2017	0.001 % to 0.5 %
57	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	ASTM E 3061: 2017	0.001 % to 10.0 %
58	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	MET/TP-C/021 02 July 10: 2014	0.001 % to 10.0 %
59	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Magnesium	MET/TP-C/032 02 July 25: 2016	0.005 % to 4.75 %

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60	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	ASTM E 3061: 2017	0.001 % to 10.0 %
61	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Manganese	ASTM E 3061: 2017	0.005 % to 5.0 %
62	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Manganese	MET/TP-C/021 02 July 10: 2014	0.005 % to 5.0 %
63	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Manganese	MET/TP-C/032 02 July 25: 2016	0.003 % to 1.50 %
64	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Manganese	ASTM E 3061: 2017	0.005 % to 5.0 %
65	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Nickel	ASTM E 3061: 2017	0.01 % to 5.0 %
66	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Nickel	MET/TP-C/021 02 July 10: 2014	0.01 % to 5.0 %
67	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Nickel	MET/TP-C/032 02 July 25: 2016	0.020 % to 2.80 %
68	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Nickel	ASTM E 3061: 2017	0.01 % to 5.0 %
69	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Silicon	ASTM E3061: 2017	0.01 % to 15.0 %
70	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Silicon	IS 504 Part 1 2002 RA: 2018	0.01 % to 15.0 %
71	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Silicon	MET/TP-C/032 02 July 25: 2016	0.020 % to 15.0 %
72	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Silicon	IS 504 Part 1 2002 RA: 2018	0.01 % to 15.0 %
73	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Silicon	ASTM E3061: 2017	0.01 % to 15.0 %

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74	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Tin	ASTM E 3061: 2017	0.001 % to 0.25 %
75	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Tin	MET/TP-C/021 02 July 10: 2014	0.001 % to 0.25 %
76	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Tin	MET/TP-C/032 02 July 25: 2016	0.002 % to 0.25 %
77	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Tin	ASTM E 3061: 2017	0.001 % to 0.25 %
78	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Titanium	ASTM E 3061: 2017	0.001 % to 1.0 %
79	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Titanium	MET/TP-C/021 02 July 10: 2014	0.001 % to 1.0 %
80	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Titanium	MET/TP-C/032 02 July 25: 2016	0.010 % to 0.30 %
81	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Titanium	ASTM E 3061: 2017	0.001 % to 1.0 %
82	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Vanadium	MET/TP-C/032 02 July 25: 2016	0.007 % to 0.15 %
83	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Zinc	ASTM E 3061: 2017	0.005 % to 8.0 %
84	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Zinc	MET/TP-C/021 02 July 10: 2014	0.005 % to 8.0 %
85	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Zinc	MET/TP-C/032 02 July 25: 2016	0.004 % to 7.0 %
86	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Zinc	ASTM E 3061: 2017	0.005 % to 8.0 %
87	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys	Zirconium	MET/TP-C/032 02 July 25: 2016	0.0022 % to 0.070 %

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88	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Magnesium	ASTM E1251 A: 2017	0.005 % to 5.2 %
89	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Manganese	ASTM E1251 A: 2017	0.005 % to 2.0 %
90	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Nickel	ASTM E1251 A: 2017	0.01 % to 3.0 %
91	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Silicon	ASTM E1251 A: 2017	0.01 % to 16.0 %
92	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Tin	ASTM E1251 A: 2017	0.002 % to 0.25 %
93	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Titanium	ASTM E1251 A: 2017	0.005 % to 0.30 %
94	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Vanadium	ASTM E1251 A: 2017	0.005 % to 0.17 %
95	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Zinc	ASTM E1251 A: 2017	0.005 % to 6.0 %
96	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E 351: 2013	0.01 % to 0.90 %
97	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 12308 (Part 5) 1991 RA: 2018	0.01 % to 0.50 %
98	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E 351: 2013	0.01 % to 0.90 %
99	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 12308 (Part 5) 1991 RA: 2018	0.01 % to 0.50 %
100	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 12308 (Part 6) 1991 RA: 2018	0.1 % to 6.0 %
101	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E 351: 2013	0.1 % to 6.0 %

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102	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 12308 (Part 6) 1991 RA: 2018	0.1 % to 6.0 %
103	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E 351: 2013	0.1 % to 6.0 %
104	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Aluminium	IS 15338 2003 RA: 2018	0.005 % to 0.15 %
105	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Aluminium	ASTM E 1999: 2018	0.005 % to 0.15 %
106	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Aluminium	JIS G 1253: 2013	0.005 % to 0.15 %
107	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Carbon	IS 15338 2003 RA: 2018	1.5 % to 4.20 %
108	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Carbon	ASTM E 1999: 2018	1.5 % to 4.20 %
109	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Carbon	JIS G 1253: 2013	1.5 % to 4.20 %
110	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Chromium	IS 15338 2003 RA: 2018	0.01 % to 1.0 %
111	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Chromium	ASTM E 1999: 2018	0.01 % to 1.0 %
112	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Chromium	JIS G 1253: 2013	0.01 % to 1.0 %
113	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Copper	IS 15338 2003 RA: 2018	0.01 % to 1.30 %
114	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Copper	ASTM E 1999: 2018	0.01 % to 1.30 %
115	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Copper	JIS G 1253: 2013	0.01 % to 1.30 %

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116	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Lead	IS 15338 2003 RA: 2018	0.006 % to 0.05 %
117	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Lead	ASTM E 1999: 2018	0.006 % to 0.05 %
118	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Lead	JIS G 1253: 2013	0.006 % to 0.05 %
119	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Magnesium	IS 15338 2003 RA: 2018	0.003 % to 0.08 %
120	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Magnesium	ASTM E 1999: 2018	0.003 % to 0.08 %
121	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Magnesium	JIS G 1253: 2013	0.003 % to 0.08 %
122	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Manganese	IS 15338 2003 RA: 2018	0.05 % to 2.20 %
123	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Manganese	ASTM E 1999: 2018	0.05 % to 2.20 %
124	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Manganese	JIS G 1253: 2013	0.05 % to 2.20 %
125	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Molybdenum	IS 15338 2003 RA: 2018	0.01 % to 0.8 %
126	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Molybdenum	ASTM E 1999: 2018	0.01 % to 0.8 %
127	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Molybdenum	JIS G 1253: 2013	0.01 % to 0.8 %
128	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Nickel	IS 15338 2003 RA: 2018	0.01 % to 1.0 %
129	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Nickel	ASTM E 1999: 2018	0.01 % to 1.0 %

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130	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Nickel	JIS G 1253: 2013	0.01 % to 1.0 %
131	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Phosphorus	IS 15338 2003 RA: 2018	0.005 % to 0.80 %
132	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Phosphorus	ASTM E 1999: 2018	0.005 % to 0.80 %
133	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Phosphorus	JIS G 1253: 2013	0.005 % to 0.80 %
134	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Silicon	IS 15338 2003 RA: 2018	0.3 % to 3.3 %
135	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Silicon	ASTM E 1999: 2018	0.3 % to 3.3 %
136	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Silicon	JIS G 1253: 2013	0.3 % to 3.3 %
137	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Sulphur	IS 15338 2003 RA: 2018	0.01 % to 0.20 %
138	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Sulphur	ASTM E 1999: 2018	0.01 % to 0.20 %
139	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Sulphur	JIS G 1253: 2013	0.01 % to 0.20 %
140	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Tin	IS 15338 2003 RA: 2018	0.01 % to 0.50 %
141	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Tin	ASTM E 1999: 2018	0.01 % to 0.50 %
142	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Tin	JIS G 1253: 2013	0.01 % to 0.50 %
143	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Titanium	IS 15338 2003 RA: 2018	0.005 % to 0.30 %

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144	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Titanium	ASTM E 1999: 2018	0.005 % to 0.30 %
145	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Titanium	JIS G 1253: 2013	0.005 % to 0.30 %
146	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Vanadium	IS 15338 2003 RA: 2018	0.01 % to 0.4 %
147	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Vanadium	ASTM E 1999: 2018	0.01 % to 0.4 %
148	CHEMICAL- METALS & ALLOYS	Cast Iron Alloys	Vanadium	JIS G 1253: 2013	0.01 % to 0.4 %
149	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Aluminium	BSEN 15079: 2015	0.005 % to 13.0 %
150	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Aluminium	MET/TP-C/021 02 July 10: 2014	0.01 % to 12.0 %
151	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Aluminium	JIS H 1292 2005 RA: 2014	0.002 % to 11.60 %
152	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Antimony	MET/TP-C/021 02 July 10: 2014	0.001 % to 1.0 %
153	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Antimony	JIS H 1292 2005 RA: 2014	0.001 % to 0.145 %
154	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Arsenic	MET/TP-C/021 02 July 10: 2014	0.01 % to 0.1 %
155	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Arsenic	JIS H1292 2005 RA: 2014	0.001 % to 0.105 %
156	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Beryllium	MET/TP-C/021 02 July 10: 2014	0.001 % to 2.0 %
157	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Bismuth	MET/TP-C/021 02 July 10: 2014	0.01 % to 0.2 %

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158	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Bismuth	JIS H 1292 2005 RA : 2014	0.014 % to 0.060 %
159	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Cadmium	MET/TP-C/021 02 July 10: 2014	0.001 % to 1.0 %
160	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cadmium	JIS H 1292 2005 RA: 2014	0.003 % to 0.013 %
161	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Chromium	JIS H 1292 2005 RA : 2014	0.001 % to 0.79 %
162	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	JIS H 1292 2005 RA: 2014	56.95 % to 99.97 %
163	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Iron	BSEN 15079: 2015	0.005 % to 7.0 %
164	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Iron	MET/TP-C/021 02 July 10: 2014	0.01 % to 10.0 %
165	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Iron	JIS H 1292 2005 RA: 2014	0.003 % to 6.15 %
166	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Lead	BSEN 15079: 2015	0.005 % to 16.5 %
167	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Lead	ASTM E 478 2008 RA: 2017	0.001 % to 20.0 %
168	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Lead	MET/TP-C/021 02 July 10: 2014	0.001 % to 20.0 %
169	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Lead	JIS H 1292 2005 RA: 2014	0.002 % to 15.0 %
170	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Manganese	BSEN 15079: 2015	0.003 % to 5.0 %
171	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Manganese	MET/TP-C/021 02 July 10: 2014	0.01 % to 4.0 %

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172	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Manganese	JIS H 1292 2005 RA : 2014	0.002 % to 4.60 %
173	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Nickel	BSEN 15079: 2015	0.005 % to 5.30 %
174	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Nickel	MET/TP-C/021 02 July 10: 2014	0.001 % to 4.0 %
175	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Nickel	JIS H 1292 2005 RA: 2014	0.002 % to 5.0 %
176	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Phosphorous	IS 4027 (Part 3) 1987 RA: 2018	0.01 % to 0.25 %
177	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Phosphorous	BSEN 15079: 2015	0.001 % to 0.7 %
178	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Phosphorous	IS 4027 (Part 3) 1987 RA: 2018	0.01 % to 0.25 %
179	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Phosphorous	IS 4027 (Part 3) 1987 RA: 2018	0.01 % to 0.25 %
180	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Phosphorus	JIS H 1292 2005 RA: 2014	0.001 % to 0.55 %
181	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Silicon	IS 4027 (Part 10) 2000 RA: 2018	0.1 % to 2.0 %
182	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Silicon	BSEN 15079: 2015	0.005 % to 2.0 %
183	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Silicon	JIS H 1292 2005 RA: 2014	0.001 % to 1.30 %
184	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Silicon	IS 4027 (Part 10) 2000 RA: 2018	0.1 % to 2.0 %
185	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Silver	ASTM E 478 2008 RA: 2017	0.01 % to 0.10 %

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186	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Silver	MET/TP-C/021 02 July 10: 2014	0.01 % to 0.10 %
187	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Silver	JIS H 1292 2005 RA : 2014	0.005 % to 0.025 %
188	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Sulphur	BSEN 15079: 2015	0.005 % to 0.06 %
189	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Tin	BSEN 15079: 2015	0.005 % to 13.0 %
190	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Tin	MET/TP-C/021 02 July 10: 2014	0.01 % to 12.0 %
191	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Tin	JIS H 1292 2005 RA : 2014	0.005 % to 13.0 %
192	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Zinc	BSEN 15079: 2015	0.01 % to 45.0 %
193	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Zinc	MET/TP-C/021 02 July 10: 2014	0.01 % to 40.0 %
194	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Zinc	JIS H 1292 2005 RA: 2014	0.002 % to 41.0 %
195	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Zirconium	MET/TP-C/021 02 July 10: 2014	0.01 % to 0.3 %
196	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Zirconium	JIS H 1292 2005 RA : 2014	0.003 % to 0.21 %
197	CHEMICAL- METALS & ALLOYS	Die Steel	Aluminum	JIS G 1253: 2013	0.01 % to 0.20 %
198	CHEMICAL- METALS & ALLOYS	Die Steel	Carbon	JIS G 1253 : 2013	0.015 % to 2.0 %
199	CHEMICAL- METALS & ALLOYS	Die Steel	Chromium	JIS G 1253: 2013	1.0 % to 12.70 %

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200	CHEMICAL- METALS & ALLOYS	Die Steel	Cobalt	JIS G 1253: 2013	0.01 % to 5.65 %
201	CHEMICAL- METALS & ALLOYS	Die Steel	Copper	JIS G 1253: 2013	0.05 % to 0.50 %
202	CHEMICAL- METALS & ALLOYS	Die Steel	Manganese	JIS G 1253: 2013	0.05 % to 2.20 %
203	CHEMICAL- METALS & ALLOYS	Die Steel	Molybdenum	JIS G 1253: 2013	0.02 % to 10.20 %
204	CHEMICAL- METALS & ALLOYS	Die Steel	Nickel	JIS G 1253: 2013	0.05 % to 4.50 %
205	CHEMICAL- METALS & ALLOYS	Die Steel	Niobium	JIS G 1253: 2013	0.003 % to 1.20 %
206	CHEMICAL- METALS & ALLOYS	Die Steel	Phosphorus	JIS G 1253: 2013	0.01 % to 0.06 %
207	CHEMICAL- METALS & ALLOYS	Die Steel	Silicon	JIS G 1253: 2013	0.05 % to 2.10 %
208	CHEMICAL- METALS & ALLOYS	Die Steel	Sulphur	JIS G 1253: 2013	0.002 % to 0.10 %
209	CHEMICAL- METALS & ALLOYS	Die Steel	Tungsten	JIS G 1253: 2013	0.05 % to 20.0 %
210	CHEMICAL- METALS & ALLOYS	Die Steel	Vanadium	JIS G 1253: 2013	0.05 % to 2.20 %
211	CHEMICAL- METALS & ALLOYS	Ferro-alloys	Carbon	MET/TP-C/035 02 July 25: 2016	0.01 to 7.5
212	CHEMICAL- METALS & ALLOYS	Ferro-Alloys	Sulphur	MET/TP-C/035 02 July 25: 2016	0.005 % to 0.10 %
213	CHEMICAL- METALS & ALLOYS	Ferro-Chromium	Chromium	JIS G 1351 2006 RA: 2016	45.0 % to 75.0 %

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214	CHEMICAL- METALS & ALLOYS	Ferro-Chromium	Chromium	JIS G 1351 2006 RA: 2016	45.0 % to 75.0 %
215	CHEMICAL- METALS & ALLOYS	Ferro-Chromium	Silicon	JIS G 1351 2006 RA: 2016	1.00 % to 7.00 %
216	CHEMICAL- METALS & ALLOYS	Ferro-Chromium	Silicon	JIS G 1351 2006 RA: 2016	1.00 % to 7.00 %
217	CHEMICAL- METALS & ALLOYS	Ferro-Manganese	Manganese	JIS G 1351 2006 RA: 2016	73.0 % to 95.0 %
218	CHEMICAL- METALS & ALLOYS	Ferro-Manganese	Manganese	JIS G 1351 2006 RA: 2016	73.0 % to 95.0 %
219	CHEMICAL- METALS & ALLOYS	Ferro-Manganese	Phosphorous	JIS G 1351 2006 RA: 2016	0.10 % to 0.30 %
220	CHEMICAL- METALS & ALLOYS	Ferro-Manganese	Phosphorous	JIS G 1351 2006 RA: 2016	0.10 % to 0.30 %
221	CHEMICAL- METALS & ALLOYS	Ferro-Manganese	Silicon	JIS G 1351 2006 RA: 2016	0.10 % to 2.00 %
222	CHEMICAL- METALS & ALLOYS	Ferro-Manganese	Silicon	JIS G 1351 2006 RA: 2016	0.10 % to 2.00 %
223	CHEMICAL- METALS & ALLOYS	Ferro-Molybdenum	Molybdenum	MET/TP-C/037 02 July 25: 2016	50.0 % to 75.0 %
224	CHEMICAL- METALS & ALLOYS	Ferro-Molybdenum	Molybdenum	MET/TP-C/037 02 July 25: 2016	50.0 % to 75.0 %
225	CHEMICAL- METALS & ALLOYS	Ferro-Silicon	Aluminium	JIS G 1351 2006 RA: 2016	0.50 % to 2.00 %
226	CHEMICAL- METALS & ALLOYS	Ferro-Silicon	Aluminium	JIS G 1351 2006 RA: 2016	0.50 % to 2.00 %
227	CHEMICAL- METALS & ALLOYS	Ferro-Silicon	Manganese	JIS G 1351 2006 RA: 2016	0.10 % to 1.00 %

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228	CHEMICAL- METALS & ALLOYS	Ferro-Silicon	Manganese	JIS G 1351 2006 RA: 2016	0.10 % to 1.00 %
229	CHEMICAL- METALS & ALLOYS	Ferro-Silicon	Phosphorous	JIS G 1351 2006 RA: 2016	0.005 % to 0.10 %
230	CHEMICAL- METALS & ALLOYS	Ferro-Silicon	Phosphorous	JIS G 1351 2006 RA: 2016	0.005 % to 0.10 %
231	CHEMICAL- METALS & ALLOYS	Ferro-Silicon	Silicon	JIS G 1351 2006 RA: 2016	40.0 % to 95.0 %
232	CHEMICAL- METALS & ALLOYS	Ferro-Silicon	Silicon	JIS G 1351 2006 RA: 2016	40.0 % to 95.0 %
233	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Carbon	ASTM E2209: 2013	0.020 % to 0.65 %
234	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Carbon	JIS G 1253: 2013	0.020 % to 0.65 %
235	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Chromium	ASTM E2209: 2013	1.00 % to 24.0 %
236	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Chromium	JIS G 1253: 2013	1.00 % to 24.0 %
237	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Copper	ASTM E2209: 2013	0.08 % to 4.00 %
238	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Copper	JIS G 1253: 2013	0.08 % to 4.00 %
239	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Manganese	ASTM E2209: 2013	0.70 % to 21.50 %
240	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Manganese	JIS G 1253: 2013	0.70 % to 21.50 %
241	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Molybdenum	ASTM E2209: 2013	0.09 % to 2.30 %

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242	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Molybdenum	JIS G 1253: 2013	0.09 % to 2.30 %
243	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Nickel	ASTM E2209: 2013	0.05 % to 12.33 %
244	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Nickel	JIS G 1253: 2013	0.05 % to 12.33 %
245	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Niobium	ASTM E2209: 2013	0.003 % to 2.50 %
246	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Niobium	JIS G 1253: 2013	0.003 % to 2.50 %
247	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Phosphorus	ASTM E2209: 2013	0.015 % to 0.050 %
248	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Phosphorus	JIS G 1253: 2013	0.015 % to 0.050 %
249	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Silicon	ASTM E2209: 2013	0.20 % to 4.50 %
250	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Silicon	JIS G 1253: 2013	0.20 % to 4.50 %
251	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Sulphur	ASTM E2209: 2013	0.001 % to 0.035 %
252	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Sulphur	JIS G 1253: 2013	0.001 % to 0.035 %
253	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Tungsten	ASTM E2209: 2013	0.01 % to 1.05 %
254	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Tungsten	JIS G 1253: 2013	0.01 % to 1.05 %
255	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Vanadium	ASTM E2209: 2013	0.014 % to 0.32 %

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256	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Vanadium	JIS G 1253: 2013	0.014 % to 0.32 %
257	CHEMICAL- METALS & ALLOYS	Iron & Steel Alloys	Carbon	IS 228 (Part 20) 2003 RA: 2014	0.005 % to 2.5 %
258	CHEMICAL- METALS & ALLOYS	Iron & Steel Alloys	Nitrogen	IS 228 (Part 19) 1998 RA: 2016	0.005 % to 0.7 %
259	CHEMICAL- METALS & ALLOYS	Iron & Steel Alloys	Nitrogen	IS 228 (Part 19) 1998 RA: 2016	0.005 % to 0.7 %
260	CHEMICAL- METALS & ALLOYS	Iron & Steel Alloys	Sulphur	IS 228 (Part 20) 2003 RA: 2014	0.001 % to 0.35 %
261	CHEMICAL- METALS & ALLOYS	Iron, Nickel, Cobalt Alloys	Carbon	ASTM E 1019: 2018	0.005 % to 4.50 %
262	CHEMICAL- METALS & ALLOYS	Iron, Nickel, Cobalt Alloys	Sulphur	ASTM E1019: 2018	0.001 % to 0.40 %
263	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Aluminium	JIS G 1258: 2007	0.004 % to 1.5 %
264	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Aluminium	JIS G 1258: 2007	0.004 % to 1.5 %
265	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Aluminium	JIS G 1258: 2007	0.004 % to 1.5 %
266	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Chromium	JIS G 1258: 2007	0.03 % to 35.0 %
267	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Chromium	JIS G 1258: 2007	0.03 % to 35.0 %
268	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Cobalt	JIS G 1258: 2007	0.01 % to 1.0 %
269	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Cobalt	JIS G 1258: 2007	0.01 % to 1.0 %

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270	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Copper	JIS G 1258: 2007	0.01 % to 5.0 %
271	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Copper	JIS G 1258: 2007	0.01 % to 5.0 %
272	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Manganese	JIS G 1258: 2007	0.01 % to 20.0 %
273	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Manganese	JIS G 1258: 2007	0.01 % to 20.0 %
274	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Molybdenum	JIS G 1258: 2007	0.10 % to 3.0 %
275	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Molybdenum	JIS G 1258: 2007	0.10 % to 3.0 %
276	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Molybdenum	JIS G 1258: 2007	0.10 % to 3.0 %
277	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Nickel	JIS G 1258: 2007	0.02 % to 10.0 %
278	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Nickel	JIS G 1258: 2007	0.02 % to 10.0 %
279	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Phosphorous	JIS G 1258: 2007	0.003 % to 0.10 %
280	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Phosphorous	JIS G 1258: 2007	0.003 % to 0.10 %
281	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Silicon	JIS G 1258: 2007	0.10 % to 2.0 %
282	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Silicon	JIS G 1258: 2007	0.10 % to 2.0 %
283	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Titanium	JIS G 1258: 2007	0.001 % to 2.5 %

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284	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Titanium	JIS G 1258: 2007	0.001 % to 2.5 %
285	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Vanadium	JIS G 1258: 2007	0.01 % to 1.0 %
286	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferrous Alloys	Vanadium	JIS G 1258: 2007	0.01 % to 1.0 %
287	CHEMICAL- METALS & ALLOYS	Iron, Steel and Ferrous Alloys	Aluminium	MET/TP-C/021 02 July 10: 2014	0.01 % to 1.5 %
288	CHEMICAL- METALS & ALLOYS	Iron, Steel and Ferrous Alloys	Boron	MET/TP-C/021 02 July 10: 2014	0.0005 % to 0.003 %
289	CHEMICAL- METALS & ALLOYS	Iron, Steel and Ferrous Alloys	Chromium	MET/TP-C/021 02 July 10: 2014	0.01 % to 26.0 %
290	CHEMICAL- METALS & ALLOYS	Iron, Steel and Ferrous Alloys	Cobalt	MET/TP-C/021 02 July 10: 2014	0.001 % to 10.0 %
291	CHEMICAL- METALS & ALLOYS	Iron, Steel and Ferrous Alloys	Copper	MET/TP-C/021 02 July 10: 2014	0.01 % to 3.0 %
292	CHEMICAL- METALS & ALLOYS	Iron, Steel and Ferrous Alloys	Lead	MET/TP-C/021 02 July 10: 2014	0.01 % to 0.40 %
293	CHEMICAL- METALS & ALLOYS	Iron, Steel and Ferrous Alloys	Magnesium	MET/TP-C/021 02 July 10: 2014	0.005 % to 0.50 %
294	CHEMICAL- METALS & ALLOYS	Iron, Steel and Ferrous Alloys	Manganese	MET/TP-C/021 02 July 10: 2015	0.005 % to 12.0 %
295	CHEMICAL- METALS & ALLOYS	Iron, Steel and Ferrous Alloys	Molybdenum	MET/TP-C/021 02 July 10: 2014	0.001 % to 4.0 %
296	CHEMICAL- METALS & ALLOYS	Iron, Steel and Ferrous Alloys	Nickel	MET/TP-C/021 02 July 10: 2014	0.001 % to 25.0 %
297	CHEMICAL- METALS & ALLOYS	Iron, Steel and Ferrous Alloys	Tin	MET/TP-C/021 02 July 10: 2014	0.005 % to 0.1 %

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298	CHEMICAL- METALS & ALLOYS	Iron, Steel and Ferrous Alloys	Titanium	MET/TP-C/021 02 July 10: 2014	0.005 % to 0.1 %
299	CHEMICAL- METALS & ALLOYS	Iron, Steel and Ferrous Alloys	Vanadium	MET/TP-C/021 02 July 10: 2014	0.005 % to 4.0 %
300	CHEMICAL- METALS & ALLOYS	Lead & Its Alloys	Antimony	MET/TP-C/021 02 July 10: 2014	0.010 % to 19.0 %
301	CHEMICAL- METALS & ALLOYS	Lead & Its Alloys	Arsenic	MET/TP-C/021 02 July 10: 2014	0.010 % to 0.40 %
302	CHEMICAL- METALS & ALLOYS	Lead & Its Alloys	Bismuth	MET/TP-C/021 02 July 10: 2014	0.010 % to 0.25 %
303	CHEMICAL- METALS & ALLOYS	Lead & Its Alloys	Cadmium	MET/TP-C/021 02 July 10: 2014	0.005 % to 0.050 %
304	CHEMICAL- METALS & ALLOYS	Lead & Its Alloys	Copper	MET/TP-C/021 02 July 10: 2014	0.005 % to 0.50 %
305	CHEMICAL- METALS & ALLOYS	Lead & Its Alloys	Iron	MET/TP-C/021 02 July 10: 2014	0.001 % to 0.50 %
306	CHEMICAL- METALS & ALLOYS	Lead & Its Alloys	Nickel	MET/TP-C/021 02 July 10: 2014	0.003 % to 0.050 %
307	CHEMICAL- METALS & ALLOYS	Lead & Its Alloys	Silver	MET/TP-C/021 02 July 10: 2014	0.060 % to 0.070 %
308	CHEMICAL- METALS & ALLOYS	Lead & Its Alloys	Tin	MET/TP-C/021 02 July 10: 2014	0.050 % to 35.0 %
309	CHEMICAL- METALS & ALLOYS	Lead & Its Alloys	Zinc	MET/TP-C/021 02 July 10: 2014	0.002 % to 0.10 %
310	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminum	ASTM E415 : 2017	0.002 % to 1.2 %
311	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminum	IS 8811 1998 RA: 2018	0.002 % to 1.2 %

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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
312	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminum	JIS G 1253: 2013	0.002 % to 1.2 %
313	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Boron	ASTM E415: 2017	0.0001 % to 0.0040 %
314	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Boron	IS 8811 1998 RA: 2018	0.0001 % to 0.0040 %
315	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Boron	JIS G 1253: 2013	0.0001 % to 0.0040 %
316	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	ASTM E415: 2017	0.003 % to 1.10 %
317	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	IS 8811 1998 RA: 2018	0.003 % to 1.10 %
318	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	JIS G 1253: 2013	0.003 % to 1.10 %
319	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	ASTM E415: 2017	0.002 % to 5.2 %
320	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	IS 8811 1998 RA: 2018	0.002 % to 5.2 %
321	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	JIS G 1253: 2013	0.002 % to 5.2 %
322	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt	ASTM E415: 2017	0.001 % to 0.04 %
323	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt	IS 8811 1998 RA: 2018	0.001 % to 0.04 %
324	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt	JIS G 1253: 2013	0.001 % to 0.04 %
325	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	ASTM E415: 2017	0.002 % to 1.15 %

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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
326	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	IS 8811 1998 RA: 2018	0.002 % to 1.15 %
327	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	JIS G 1253: 2013	0.002 % to 1.15 %
328	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Lead	ASTM E415: 2017	0.004 % to 0.35 %
329	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Lead	IS 8811 1998 RA: 2018	0.004 % to 0.35 %
330	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Lead	JIS G 1253: 2013	0.004 % to 0.35 %
331	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	ASTM E415: 2017	0.003 % to 2.3 %
332	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	IS 8811 1998 RA: 2018	0.003 % to 2.3 %
333	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	JIS G 1253: 2013	0.003 % to 2.3 %
334	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	ASTM E415: 2017	0.002 % to 1.60 %
335	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	IS 8811 1998 RA: 2018	0.002 % to 1.60 %
336	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	JIS G 1253: 2013	0.002 % to 1.60 %
337	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	IS 8811 1998 RA: 2018	0.005 % to 4.5 %
338	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	JIS G 1253: 2013	0.005 % to 4.5 %
339	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	ASTM E415: 2017	0.005 % to 4.50 %

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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
340	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Niobium	ASTM E415: 2017	0.005 % to 1.3 %
341	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Niobium	IS 8811 1998 RA: 2018	0.005 % to 1.3 %
342	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Niobium	JIS G 1253: 2013	0.005 % to 1.3 %
343	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	ASTM E415: 2017	0.001 % to 0.09 %
344	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	IS 8811 1998 RA: 2018	0.001 % to 0.09 %
345	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	JIS G 1253: 2013	0.001 % to 0.09 %
346	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	ASTM E 350: 2018	0.02 % to 0.25 %
347	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	ASTM E 350: 2018	0.02 % to 0.25 %
348	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	ASTM E415: 2017	0.002 % to 2.15 %
349	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	IS 8811 1998 RA: 2018	0.002 % to 2.15 %
350	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	JIS G 1253: 2013	0.002 % to 2.15 %
351	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	ASTM E 350: 2018	0.05 % to 3.5 %
352	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	ASTM E 350: 2018	0.05 % to 3.5 %
353	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	ASTM E415: 2017	0.001 % to 0.35 %

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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
354	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	IS 8811 1998 RA: 2018	0.001 % to 0.35 %
355	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	JIS G 1253: 2013	0.001 % to 0.35 %
356	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tin	ASTM E415: 2017	0.003 % to 0.05 %
357	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tin	IS 8811 1998 RA: 2018	0.003 % to 0.05 %
358	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tin	JIS G 1253: 2013	0.003 % to 0.05 %
359	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Titanium	IS 8811 1998 RA: 2018	0.005 % to 0.10 %
360	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Titanium	JIS G 1253: 2013	0.005 % to 0.10 %
361	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Titanium	ASTM E415: 2017	0.005 % to 0.10 %
362	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tungsten	ASTM E415: 2017	0.002 % to 1.85 %
363	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tungsten	IS 8811 1998 RA: 2018	0.002 % to 1.85 %
364	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Tungsten	JIS G 1253: 2013	0.002 % to 1.85 %
365	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	ASTM E415: 2017	0.002 % to 0.60 %
366	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	IS 8811 1998 RA: 2018	0.002 % to 0.60 %
367	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	JIS G 1253: 2013	0.002 % to 0.60 %

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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
368	CHEMICAL- METALS & ALLOYS	Low Alloy Steel, Tool Steel Alloy and Cast iron Alloys.	Aluminium	JIS G 1256 1997 RA: 2013	0.002 % to 1.15 %
369	CHEMICAL- METALS & ALLOYS	Low Alloy Steel, Tool Steel Alloy and Cast iron Alloys.	Chromium	JIS G 1256 1997 RA: 2013	0.002 % to 13.0 %
370	CHEMICAL- METALS & ALLOYS	Low Alloy Steel, Tool Steel Alloy and Cast iron Alloys.	Cobalt	JIS G 1256 1997 RA: 2013	0.004 % to 5.50 %
371	CHEMICAL- METALS & ALLOYS	Low Alloy Steel, Tool Steel Alloy and Cast iron Alloys.	Copper	JIS G 1256 1997 RA: 2013	0.002 % to 1.20 %
372	CHEMICAL- METALS & ALLOYS	Low Alloy Steel, Tool Steel Alloy and Cast iron Alloys.	Lead	JIS G 1256 1997 RA: 2013	0.002 % to 0.35 %
373	CHEMICAL- METALS & ALLOYS	Low Alloy Steel, Tool Steel Alloy and Cast iron Alloys.	Magnesium	JIS G 1256 1997 RA: 2013	0.002 % to 0.09 %
374	CHEMICAL- METALS & ALLOYS	Low Alloy Steel, Tool Steel Alloy and Cast iron Alloys.	Manganese	JIS G 1256 1997 RA: 2013	0.001 % to 2.00 %
375	CHEMICAL- METALS & ALLOYS	Low Alloy Steel, Tool Steel Alloy and Cast iron Alloys.	Molybdenum	JIS G 1256 1997 RA: 2013	0.002 % to 9.50 %
376	CHEMICAL- METALS & ALLOYS	Low Alloy Steel, Tool Steel Alloy and Cast iron Alloys.	Nickel	JIS G 1256 1997 RA: 2013	0.021 % to 4.20 %
377	CHEMICAL- METALS & ALLOYS	Low Alloy Steel, Tool Steel Alloy and Cast iron Alloys.	Niobium	JIS G 1256 1997 RA: 2013	0.001 % to 1.20 %

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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
378	CHEMICAL- METALS & ALLOYS	Low Alloy Steel, Tool Steel Alloy and Cast iron Alloys.	Phosphorous	JIS G 1256 1997 RA: 2013	0.001 % to 0.68 %
379	CHEMICAL- METALS & ALLOYS	Low Alloy Steel, Tool Steel Alloy and Cast iron Alloys.	Silicon	JIS G 1256 1997 RA: 2013	0.002 % to 3.0 %
380	CHEMICAL- METALS & ALLOYS	Low Alloy Steel, Tool Steel Alloy and Cast iron Alloys.	Tin	JIS G 1256 1997 RA: 2013	0.003 % to 0.37 %
381	CHEMICAL- METALS & ALLOYS	Low Alloy Steel, Tool Steel Alloy and Cast iron Alloys.	Titanium	JIS G 1256 1997 RA: 2013	0.05 % to 0.26 %
382	CHEMICAL- METALS & ALLOYS	Low Alloy Steel, Tool Steel Alloy and Cast iron Alloys.	Tungsten	JIS G 1256 1997 RA: 2013	0.001 % to 18.0 %
383	CHEMICAL- METALS & ALLOYS	Low Alloy Steel, Tool Steel Alloy and Cast iron Alloys.	Vanadium	JIS G 1256 1997 RA: 2013	0.002 % to 2.00 %
384	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Aluminium	ASTM E 2594 2009 RA: 2014	0.060 % to 1.40 %
385	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Aluminium	ASTM E 3047: 2016	0.030 % to 4.0 %
386	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Aluminium	JIS H 1287: 2015	0.031 % to 3.0 %
387	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Aluminium	ASTM E 2594 2009 RA: 2014	0.060 % to 1.40 %
388	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Boron	ASTM E 2594 2009 RA: 2014	0.002 % to 0.020 %
389	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Boron	ASTM E 2594 2009 RA: 2014	0.002 % to 0.020 %

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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
390	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Carbon	ASTM E 3047: 2016	0.005 % to 0.25 %
391	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Chromium	ASTM E 2594 2009 RA: 2014	0.01 % to 33.0 %
392	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Chromium	ASTM E 3047: 2016	0.010 % to 25.0 %
393	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Chromium	JIS H 1287: 2015	0.010 % to 22.0 %
394	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Chromium	ASTM E 2594 2009 RA: 2014	0.01 % to 33.0 %
395	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Cobalt	ASTM E 3047: 2016	0.030 % to 1.5 %
396	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Cobalt	JIS H 1287: 2015	0.033 % to 1.20 %
397	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Copper	ASTM E 2594 2009 RA: 2014	0.010 % to 0.52 %
398	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Copper	ASTM E 3047: 2016	0.01 % to 35.0 %
399	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Copper	JIS H 1287: 2015	0.044 % to 32.0 %
400	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Copper	ASTM E 2594 2009 RA: 2014	0.010 % to 0.52 %
401	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Iron	ASTM E 2594 2009 RA: 2014	0.01 % to 50.0 %
402	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Iron	ASTM E 3047: 2016	0.05 % to 25.0 %
403	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Iron	JIS H 1287: 2015	0.079 % to 19.75 %

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404	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Iron	ASTM E 2594 2009 RA: 2014	0.01 % to 50.0 %
405	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Magnesium	ASTM E 2594 2009 RA: 2014	0.001 % to 0.10 %
406	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Magnesium	ASTM E 2594 2009 RA: 2014	0.001 % to 0.10 %
407	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Manganese	ASTM E 2594 2009 RA: 2014	0.002 % to 0.65 %
408	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Manganese	ASTM E 3047: 2016	0.05 % to 2.0 %
409	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Manganese	JIS H 1287: 2015	0.070 % to 1.10 %
410	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Manganese	ASTM E 2594 2009 RA: 2014	0.002 % to 0.65 %
411	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Molybdenum	ASTM E 2594 2009 RA: 2014	0.01 % to 30.0 %
412	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Molybdenum	ASTM E 3047: 2016	0.01 % to 16.5 %
413	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Molybdenum	JIS H 1287: 2015	0.024 % to 14.0 %
414	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Molybdenum	ASTM E 2594 2009 RA: 2014	0.01 % to 30.0 %
415	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Nickel	JIS H 1287: 2015	52.10 % to 99.50 %
416	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Niobium	ASTM E 2594 2009 RA: 2014	0.020 % to 5.5 %
417	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Niobium	ASTM E 3047: 2016	0.01 % to 6.0 %

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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
418	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Niobium	JIS H 1287: 2015	0.021 % to 5.30 %
419	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Niobium	ASTM E 2594 2009 RA: 2014	0.020 % to 5.5 %
420	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Phosphorous	ASTM E 2594 2009 RA: 2014	0.004 % to 0.030 %
421	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Phosphorous	ASTM E 2594 2009 RA: 2014	0.004 % to 0.030 %
422	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Phosphorus	ASTM E 3047: 2016	0.002 % to 0.02 %
423	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Phosphorus	JIS H1287: 2015	0.002 % to 0.012 %
424	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Silicon	ASTM E 3047: 2016	0.03 % to 0.50 %
425	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Silicon	JIS H 1287: 2015	0.059 % to 0.31 %
426	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Sulphur	ASTM E 3047: 2016	0.001 % to 0.01 %
427	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Tantalum	JIS H 1287: 2015	0.003 % to 0.010 %
428	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Titanium	ASTM E 3047: 2016	0.01 % to 2.6 %
429	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Titanium	JIS H 1287: 2015	0.002 % to 2.75 %
430	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Tungsten	ASTM E 3047: 2016	0.01 % to 5.0 %
431	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Tungsten	JIS H 1287: 2015	0.010 % to 3.15 %

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432	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Vanadium	ASTM E 3047: 2016	0.01 % to 0.50 %
433	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Vanadium	JIS H 1287: 2015	0.003 % to 0.17 %
434	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E 353: 2014	0.05 % to 4.0 %
435	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E 353: 2014	0.05 % to 4.0 %
436	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy & High Manganese Steel	Manganese	JIS G 1256 1997 RA: 2013	0.26 % to 20.00 %
437	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Aluminium	ASTM E 1086: 2014	0.003 % to 0.30 %
438	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Aluminium	IS 9879 1998 RA: 2015	0.003 % to 0.30 %
439	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Aluminium	JIS G 1253: 2013	0.003 % to 0.30 %
440	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Carbon	ASTM E1086: 2014	0.005 % to 0.65 %
441	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Carbon	IS 9879 1998 RA: 2015	0.005 % to 0.65 %
442	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Carbon	JIS G 1253: 2013	0.005 % to 0.65 %
443	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Chromium	ASTM E1086: 2014	9.00 % to 25.0 %
444	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Chromium	IS 9879 1998 RA: 2015	9.00 % to 25.0 %
445	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Chromium	JIS G 1253: 2013	9.00 % to 25.0 %

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446	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Cobalt	ASTM E 1086: 2014	0.013 % to 0.4 %
447	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Cobalt	IS 9879 1998 RA: 2015	0.013 % to 0.4 %
448	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Cobalt	JIS G 1253: 2013	0.013 % to 0.4 %
449	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Copper	ASTM E 1086: 2014	0.05 % to 4.05 %
450	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Copper	IS 9879 1998 RA: 2015	0.05 % to 4.05 %
451	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Copper	JIS G 1253: 2013	0.05 % to 4.05 %
452	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Manganese	ASTM E1086: 2014	0.1 % to 5.0 %
453	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Manganese	IS 9879 1998 RA: 2015	0.1 % to 5.0 %
454	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Manganese	JIS G 1253: 2013	0.1 % to 5.0 %
455	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Molybdenum	ASTM E 1086: 2014	0.05 % to 6.9 %
456	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Molybdenum	IS 9879 1998 RA: 2015	0.05 % to 6.90 %
457	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Molybdenum	JIS G 1253: 2013	0.05 % to 6.9 %
458	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Nickel	ASTM E 1086: 2014	0.06 % to 40.0 %
459	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Nickel	IS 9879 1998 RA: 2015	0.06 % to 40.0 %

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460	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Nickel	JIS G 1253: 2013	0.06 % to 40.0 %
461	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Niobium	ASTM E 1086: 2014	0.003 % to 2.50 %
462	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Niobium	IS 9879 1998 RA: 2015	0.003 % to 2.50 %
463	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Niobium	JIS G 1253: 2013	0.003 % to 2.50 %
464	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Phosphorus	ASTM E 1086: 2014	0.012 % to 0.06 %
465	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Phosphorus	IS 9879 1998 RA: 2015	0.012 % to 0.06 %
466	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Phosphorus	JIS G 1253: 2013	0.012 % to 0.06 %
467	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Silicon	ASTM E 1086: 2014	0.1 % to 4.5 %
468	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Silicon	IS 9879 1998 RA: 2015	0.1 % to 4.5 %
469	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Silicon	JIS G 1253: 2013	0.1 % to 4.5 %
470	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Sulphur	ASTM E 1086: 2014	0.001 % to 0.39 %
471	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Sulphur	IS 9879 1998 RA: 2015	0.001 % to 0.39 %
472	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Sulphur	JIS G 1253: 2013	0.001 % to 0.39 %
473	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Titanium	ASTM E 1086: 2014	0.001 % to 0.8 %

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474	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Titanium	IS 9879 1998 RA: 2015	0.001 % to 0.8 %
475	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Titanium	JIS G 1253: 2013	0.001 % to 0.8 %
476	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Tungsten	ASTM E 1086: 2014	0.01 % to 1.05 %
477	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Tungsten	IS 9879 1998 RA: 2015	0.01 % to 1.05
478	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Tungsten	JIS G 1253: 2013	0.01 % to 1.05 %
479	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Vanadium	ASTM E 1086: 2014	0.010 % to 0.35 %
480	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Vanadium	IS 9879 1998 RA: 2015	0.010 % to 0.35 %
481	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloy	Vanadium	JIS G 1253: 2013	0.010 % to 0.35 %
482	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloys and High Manganese Steel	Aluminium	JIS G 1256 1997 RA: 2013	0.001 % to 0.28 %
483	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloys and High Manganese Steel	Chromium	JIS G 1256 1997 RA: 2013	1.00 % to 35.00 %
484	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloys and High Manganese Steel	Cobalt	JIS G 1256 1997 RA: 2013	0.013 % to 0.35 %
485	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloys and High Manganese Steel	Copper	JIS G 1256 1997 RA: 2013	0.050 % to 4.00 %

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486	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloys and High Manganese Steel	Molybdenum	JIS G 1256 1997 RA: 2013	0.040 % to 8.00 %
487	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloys and High Manganese Steel	Nickel	JIS G 1256 1997 RA: 2013	0.06 % to 45.0 %
488	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloys and High Manganese Steel	Niobium	JIS G 1256 1997 RA: 2013	0.002 % to 2.50 %
489	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloys and High Manganese Steel	Phosphorous	JIS G 1256 1997 RA: 2013	0.01 % to 0.090 %
490	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloys and High Manganese Steel	Silicon	JIS G 1256 1997 RA: 2013	022 % to 4.00 %
491	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloys and High Manganese Steel	Titanium	JIS G 1256 1997 RA: 2013	0.001 % to 0.60 %
492	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloys and High Manganese Steel	Tungsten	JIS G 1256 1997 RA: 2013	0.002 % to 1.00 %
493	CHEMICAL- METALS & ALLOYS	Stainless Steel Alloys and High Manganese Steel	Vanadium	JIS G 1256 1997 RA: 2013	0.016 % to 0.40 %
494	CHEMICAL- METALS & ALLOYS	Steel & Stainless Steel	Phosphorus	IS 228 (Part 3) 1987 RA: 2018	0.005 % to 0.25 %
495	CHEMICAL- METALS & ALLOYS	Steel & Stainless Steel	Phosphorus	IS 228 (Part 3) 1987 RA: 2018	0.005 % to 0.25 %
496	CHEMICAL- METALS & ALLOYS	Steel & Stainless Steel	Silicon	IS 228 (Part 8) 1989 RA: 2014	0.05 % to 5.0 %

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497	CHEMICAL- METALS & ALLOYS	Steel & Stainless Steel	Silicon	IS 228 (Part 8) 1989 RA: 2014	0.05 % to 5.0 %
498	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Aluminium	ASTM E 539: 2011	0.04 % to 6.35 %
499	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Aluminum	ASTM E 2994: 2016	0.035 % to 7.00 %
500	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Carbon	ASTM E 2994: 2016	0.01 % to 0.018 %
501	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Iron	ASTM E 2994: 2016	0.058 % to 0.21 %
502	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Iron	ASTM E 539: 2011	0.065 % to 0.19 %
503	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Molybdenum	ASTM E 2994: 2016	0.003 % to 0.009 %
504	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Molybdenum	ASTM E 539: 2011	0.002 % to 0.008 %
505	CHEMICAL- METALS & ALLOYS	Titanium & its Alloys	Vanadium	ASTM E 539: 2011	0.001 % to 4.1 %
506	CHEMICAL- METALS & ALLOYS	Titanium and its Alloys	Tin	ASTM E 2994: 2016	0.004 % to 0.01 %
507	CHEMICAL- METALS & ALLOYS	Titanium and its Alloys	Vanadium	ASTM E 2994: 2016	0.004 % to 4.5 %
508	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloys	Aluminium	MET/TP-C/021 02 July 10: 2014	0.005 % to 26.0 %
509	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Aluminium	MET/TP-C/033 02 July 25: 2016	0.001 % to 27.00 %
510	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloys	Cadmium	MET/TP-C/021 02 July 10: 2014	0.001 % to 0.10 %

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511	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Cadmium	MET/TP-C/033 02 July 25: 2016	0.003 % to 0.015 %
512	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloys	Copper	MET/TP-C/021 02 July 10: 2014	0.001 % to 3.0 %
513	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Copper	MET/TP-C/033 02 July 25: 2016	1.04 % to 4.00 %
514	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloys	Iron	MET/TP-C/021 02 July 10: 2014	0.003 % to 0.50 %
515	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Iron	MET/TP-C/033 02 July 25: 2016	0.010 % to 0.027 %
516	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloys	Lead	MET/TP-C/021 02 July 10: 2014	0.001 % to 0.10 %
517	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Lead	MET/TP-C/033 02 July 25: 2016	0.002 % to 0.080 %
518	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloys	Magnesium	MET/TP-C/021 02 July 10: 2014	0.001 % to 0.10 %
519	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Magnesium	MET/TP-C/033 02 July 25: 2016	0.008 % to 0.021 %
520	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloys	Tin	MET/TP-C/021 02 July 10: 2014	0.005 % to 0.10 %
521	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Tin	MET/TP-C/033 02 July 25: 2016	0.001 % to 0.009 %
522	CHEMICAL- PLASTIC & RESINS	Plastic in form of Sheets, Rods, Tubes, Molded items	Ash Content	ASTM D 5630 Method B: 2013	0.01 % to 50 %
523	CHEMICAL- PLASTIC & RESINS	Plastic in form of Sheets, Rods, Tubes, Molded items	Moisture Content in Plastic	MET/TP-PR/016 01 April 05 RA: 2014	0.01 % to 0.5 %

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524	CHEMICAL- PLASTIC & RESINS	Plastic in form of Sheets, Rods, Tubes, Molded items	Polymer Identification (Plastic)	MET/TP-PR/018 01 April 05 RA: 2014	Qualitative(N.A.)
525	CHEMICAL- PLASTIC & RESINS	Plastic in form of Sheets, Rods, Tubes, Molded items	Polymer Identification (Plastic)	ASTM E 1252 1998 RA: 2013	Qualitative(N.A.)
526	CHEMICAL- PLASTIC & RESINS	Plastic in form of Sheets, Rods, Tubes, Molded items	Specific Gravity and Density of Plastic by Displacement	ASTM D 792: 2013	0.8 g/cc to 3.00 g/cc
527	CHEMICAL- PLASTIC & RESINS	Plastic in form of Sheets, Rods, Tubes, Molded items	Water Absorption of plastic	ASTM D 570 1998 RA Method A: 2018	0.01 % to 0.5 %
528	CHEMICAL- PLASTIC & RESINS	Semi Crystalline Polymer	Melting Point	MET/TP-PR/010 01 April 05 RA: 2014	50 °C to 350 °C
529	CHEMICAL- RUBBER & RUBBER PRODUCTS	Vulcanized Rubber	Density of Rubber By Displacement	IS 3400 (Part 9) Method A: 2014	0.8 g/cc to 3.00 g/cc
530	CHEMICAL- RUBBER & RUBBER PRODUCTS	Vulcanized Rubber	Determination of Ash Content	ASTM D 297: 2015	0.01 % to 50 %
531	CHEMICAL- RUBBER & RUBBER PRODUCTS	Vulcanized Rubber	Determination of Ash Content	IS 3400 (Part 22) 1984 RA: 2013	0.01 % to 50 %
532	CHEMICAL- RUBBER & RUBBER PRODUCTS	Vulcanized Rubber	Polymer identification (Rubber)	ASTM D 3677 2010 RA: 2015	Qualitative(N.A.)
533	CHEMICAL- RUBBER & RUBBER PRODUCTS	Vulcanized Rubber	Polymer Identification (Rubber)	IS 3400 (Part 22) 1984 RA: 2008	Qualitative(N.A.)

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534	CHEMICAL- RUBBER & RUBBER PRODUCTS	Vulcanized Rubber	Polymer Identification (Rubber)	ASTM D 297: 2015	Qualitative(N.A.)
535	CHEMICAL- RUBBER & RUBBER PRODUCTS	Vulcanized Rubber	Resistance of Liquids	IS 3400 (Part 6) 2012 RA: 2017	0.01 % to 30.0 %
536	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Automotive tubes	Crushing Test	IS 3074: 2013	Qualitative(Max load upto 40 tons)
537	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Brass Strip	Reverse / Alternate Bend Test	JSS 9535-2: 2008	Qualitative
538	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Brass Tubes	Double Bend Test	IS 407 1981 RA: 2016	Qualitative(Wall Thickness<2.5mm.)
539	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non ferrous Material	Tensile Strength	IS 3600 pt 3: 2018	25 MPa to 3500 MPa
540	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Bend Test	ISO 5173: 2009	Qualitative(Max load 40 tons; mandrel dia 175mm)
541	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Bend Test	IS 1599 2012 RA: 2017	Qualitative(Max load 40 tons; mandrel dia 175mm)

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542	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Bend Test	ASTM E190: 2014	Qualitative(Max load 40 tons; mandrel dia 175mm)
543	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Bend Test	ASTM E290: 2014	Qualitative(Max load 40 tons; mandrel dia 175mm)
544	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Bend Test	IS 3600 (Part 5): 2018	Qualitative
545	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Brinell Hardness Test	ASTM E10: 2018	100 HBW(2.5/187.5) to 550 HBW(2.5/187.5)
546	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Brinell Hardness Test	ASTM E10: 2018	50 HBW(10/3000) to 550 HBW(10/3000)
547	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Brinell Hardness Test	IS 1500 (Part 1): 2013	50 HBW(10/500) to 150 HBW(10/500)
548	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Brinell Hardness Test	ISO 6506-1: 2014	50 HBW(10/1000) to 200 HBW(10/1000)

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549	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Brinell Hardness Test	IS 1500 (Part 1): 2013	100 HBW(2.5/187.5) to 550 HBW(2.5/187.5)
550	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Brinell Hardness Test	ISO 6506-1: 2014	100 HBW(2.5/187.5) to 550 HBW(2.5/187.5)
551	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Brinell Hardness test	ASTM E10: 2018	50 HBW(5.0/750) to 550 HBW(5.0/750)
552	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Brinell Hardness Test	ASTM E10: 2018	50 HBW(10/500) to 150 HBW(10/500)
553	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Brinell Hardness Test	ISO 6506-1: 2014	50 HBW(10/500) to 150 HBW(10/500)
554	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Brinell Hardness Test	ASTM E10: 2018	50 HBW(10/1000) to 200 HBW(10/1000)
555	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Brinell Hardness Test	IS 1500 (Part 1): 2013	50 HBW(5.0/750) to 550 HBW(5.0/750)

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556	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Brinell Hardness Test	ISO 6506-1: 2014	50 HBW(5.0/750) to 550 HBW(5.0/750)
557	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Brinell Hardness Test	IS 1500 (Part 1): 2013	50 HBW(10/3000) to 550 HBW(10/3000)
558	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Brinell Hardness Test	ISO 6506-1: 2014	50 HBW(10/3000) to 550 HBW(10/3000)
559	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Brinell Hardness Test	IS 1500 pt 1: 2013	50 HBW(10/1000) to 200 HBW(10/1000)
560	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Drift Expanding Test	IS 2335 :2005 RA: 2017	Qualitative(Max load 40 tons; max dia 60mm; angle 30deg, 45deg, 60deg;)
561	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Elongation	IS 3600 pt 4: 1984 RA: 2011	1 % to 85 %
562	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non ferrous Metals	Erichsen Cupping Test	IS 10175: 2018	1.0 mm to 20 mm

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563	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Flattening Test	IS 2328: 2005 RA: 2017	Qualitative(Max 400mm OD for ferrous & max 100mm OD for non ferrous)
564	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ASTM E384: 2017	10 HV0.5 to 1500 HV0.5
565	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ASTM E384: 2017	10 HV0.01 to 400 HV0.01
566	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ASTM E384: 2017	10 HV0.05 to 450 HV0.05
567	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ASTM E384: 2017	10 HV1 to 1500 HV1
568	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ASTM E384: 2017	10 HV0.2 to 900 HV0.2
569	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ASTM E384: 2017	10 HV0.1 to 450 HV0.1

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570	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ASTM E384: 2017	10 HV0.025 to 400 HV0.025
571	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ASTM E384: 2017	10 HV0.3 to 1500 HV0.3
572	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ISO 6507-1: 2018	10 HV0.5 to 1500 HV0.5
573	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ISO 6507-1: 2018	10 HV0.05 to 450 HV0.05
574	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ISO 6507-1: 2018	10 HV1 to 1500 HV1
575	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness test	ISO 6507-1: 2018	10 HV0.01 to 400 HV0.01
576	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ISO 6507-1: 2018	10 HV0.1 to 450 HV0.1

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577	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ISO 6507-1: 2018	10 HV0.3 to 1000 HV0.3
578	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ISO 6507-1: 2018	10 HV0.2 to 900 HV0.2
579	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ISO 6507-1: 2018	10 HV0.025 to 400 HV0.025
580	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ISO 9015-2: 2016	10 HV1 to 1500 HV1
581	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ISO 9015-2: 2016	10 HV0.5 to 1500 HV0.5
582	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ISO 9015-2: 2016	10 HV0.1 to 450 HV0.1
583	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Micro Hardness Test	ISO 9015-2: 2016	10 HV0.3 to 1000 HV0.3

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584	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Tensile Strength	IS 3600 pt 4:1984: 2011	25 MPa to 3500 MPa
585	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Vickers Hardness Test	BS EN ISO 9015-1: 2011	10 HV10 to 1500 HV10
586	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Vickers Hardness test	BS EN ISO 9015-1: 2011	10 HV5 to 1500 HV5
587	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals	Yield Strength	IS 3600 pt 4: 1984 RA: 2011	15 MPa to 2500 MPa
588	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Elongation	ASTM E8/E8M: 2016	1 % to 85 %
589	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Elongation	IS 1608 Part 1: 2018	1 % to 85 %
590	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Elongation	ISO 6892 Part 1: 2016	1 % to 85 %

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591	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Elongation	ASME Section IX: 2017	1 % to 85 %
592	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Micro Hardness Test	IS 1501 Part 1: 2013	10 HV0.01 to 400 HV0.01
593	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Micro Hardness Test	IS 1501 Part 1: 2013	10 HV1 to 1500 HV1
594	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Micro Hardness Test	IS 1501 Part 1: 2013	10 HV0.1 to 450 HV0.1
595	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Micro Hardness Test	IS 1501 Part 1: 2013	10 HV0.5 to 1500 HV0.5
596	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Micro Hardness Test	IS 1501 Part 1: 2013	10 HV0.3 to 1000 HV0.3
597	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Micro Hardness Test	IS 1501 Part 1: 2013	10 HV0.05 to 450 HV0.05

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598	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Micro Hardness Test	IS 1501 Part 1: 2013	10 HV0.025 to 400 HV0.025
599	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Micro Hardness Test	IS 1501 Part 1: 2013	10 HV0.2 to 900 HV0.2
600	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Proof Strength	ASTM E8/E8M: 2016	15 MPa to 2500 MPa
601	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Proof Strength	IS 1608 Part 1: 2018	15 MPa to 2500 MPa
602	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Proof Strength	ISO 6892 Part 1: 2016	15 MPa to 2500 MPa
603	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Proof Strength	ASME Section IX: 2017	15 MPa to 2500 MPa
604	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Reduction	ASTM E8/E8M: 2016	1 % to 90 %

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605	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Reduction	IS 1608 Part 1: 2018	1 % to 90 %
606	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Reduction	ISO 6892 Part 1: 2016	1 % to 90 %
607	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Reduction	ASME Section IX: 2017	1 % to 90 %
608	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	IS 1586 Part 1: 2018	40 HRA to 88 HRA
609	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	IS 1586 Part 1: 2018	70 HR15N to 90 HR15N
610	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	IS 1586 Part 1: 2018	20 HRC to 70 HRC
611	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	IS 1586 Part 1: 2018	61 HR45N to 70 HR45N

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612	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	IS 1586 Part 1: 2018	20 HRBW to 100 HRBW
613	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	IS 1586 Part 1: 2018	55 HR30N to 90 HR30N
614	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	IS 1586 Part 1: 2018	73 HR15TW to 93 HR15TW
615	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	IS 1586 Part 1: 2018	43 HR30TW to 80 HR30TW
616	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	IS 1586 Part 1: 2018	15 HR45TW to 72 HR45TW
617	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	ASTM E18: 2017	40 HRA to 88 HRA
618	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	ASTM E18: 2017	20 HRBW to 100 HRBW

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619	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	ASTM E18: 2017	55 HR30N to 90 HR30N
620	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	ASTM E18: 2017	61 HR45N to 70 HR45N
621	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	ASTM E18: 2017	73 HR15TW to 93 HR15TW
622	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	ASTM E18: 2017	43 HR30TW to 82 HR30TW
623	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	ASTM E18: 2017	15 HR45TW to 72 HR45TW
624	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	ASTM E18: 2017	70 HR15N to 90 HR15N
625	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	ISO 6508 Part 1: 2016	55 HR30N to 90 HR30N

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626	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	ISO 6508 Part 1: 2016	15 HR45TW to 72 HR45TW
627	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	ISO 6508 Part 1: 2016	40 HRA to 88 HRA
628	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	ISO 6508 Part 1: 2016	61 HR45N to 70 HR45N
629	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	ISO 6508 Part 1: 2016	20 HRC to 70 HRC
630	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	ISO 6508 Part 1: 2016	70 HR15N to 90 HR15N
631	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	ISO 6508 Part 1: 2016	20 HRBW to 100 HRBW
632	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	ISO 6508 Part 1: 2016	73 HR15TW to 93 HR15TW

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633	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Test	ISO 6508 Part 1: 2016	43 HR30TW to 82 HR30TW
634	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Rockwell Hardness Tester	ASTM E18: 2017	20 HRC to 70 HRC
635	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Strength	ASTM E8/E8M: 2016	25 MPa to 3500 MPa
636	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Strength	IS 1608 Part 1: 2018	25 MPa to 3500 MPa
637	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Strength	ISO 6892 Part 1: 2016	25 MPa to 3500 MPa
638	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Tensile Strength	ASME Section IX: 2017	25 MPa to 3500 MPa
639	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Vickers Hardness Test	IS 1501 Part 1: 2013	10 HV10 to 1500 HV10

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640	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Vickers Hardness Test	IS 1501 Part 1: 2013	10 HV5 to 1500 HV5
641	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Vickers Hardness Test	IS 1501 Part 1: 2013	10 HV20 to 1500 HV20
642	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Vickers Hardness Test	IS 1501 Part 1: 2013	10 HV30 to 1500 HV30
643	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Vickers Hardness Test	ASTM E92: 2017	10 HV10 to 1500 HV10
644	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Vickers Hardness Test	ASTM E92: 2017	10 HV5 to 1500 HV5
645	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Vickers Hardness Test	ASTM E92: 2017	10 HV20 to 1500 HV20
646	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Vickers Hardness Test	ASTM E92: 2017	10 HV30 to 1500 HV30

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647	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Vickers Hardness Test	ISO 6507 Part 1: 2018	10 HV20 to 1500 HV20
648	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Vickers Hardness Test	ISO 6507 Part 1: 2018	10 HV5 to 1500 HV5
649	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Vickers Hardness Tester	ISO 6507 Part 1: 2018	10 HV10 to 1500 HV10
650	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Vickers Hardness Tester	ISO 6507 Part 1: 2018	10 HV30 to 1500 HV30
651	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Yield Strength	ASTM E8/E8M: 2016	15 MPa to 2500 MPa
652	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Yield Strength	IS 1608 Part 1: 2018	15 MPa to 2500 MPa
653	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Yield Strength	ISO 6892 Part 1: 2016	15 MPa to 2500 MPa

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654	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Yield Strength	ASME Section IX: 2017	15 MPa to 3500 MPa
655	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & non-ferrous metals	Young's Modulus	ASTM E111 2004: 2017	1000 MPa to 300000 MPa
656	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Charpy Impact Test (V notch & U notch) (Room temp & sub zero)	ASTM E23-b: 2016	10 Joule to 320 Joule [Sub-Zero Temperature: (-)110°C to 35°C & (-)196°C]
657	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Charpy Impact Test (V notch & U notch) (Room temp & sub zero)	IS 1757 (Part 1): 2014	2 Joule to 320 Joule [Sub-Zero Temperature: (-)110°C to 35°C & (-)196°C]
658	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Charpy Impact Test (V notch & U notch) (Room temp & sub zero)	ISO 148-1: 2016	2 Joule to 320 Joule [Sub-Zero Temperature: (-)110°C to 35°C & (-)196°C]
659	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Izod Impact Test	IS 1598 1977 RA: 2015	2 Joule to 168 Joule
660	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Helical Coil Springs	Spring Rate	IS 7906 (Part 7) 1989 RA: 2014	10 N/mm to 500 N/mm

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661	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Helical Coil Springs	Spring Rate	MET/TP-M/011 02 October 14 RA: 2018	10 N/mm to 500 N/mm
662	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Bars	Rebend Test	IS 1786 2008 RA: 2013	Qualitative(Max load 40 tons; mandrel dia 175mm)
663	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Bend Test	ASTM A370-A: 2017	Qualitative(Max load 40 tons; mandrel dia 175mm)
664	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Brinell Hardness Test	ASTM A370-A: 2017	50 HBW(5.0/750) to 550 HBW(5.0/750)
665	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Brinell Hardness Test	ASTM A370-A: 2017	50 HBW(10/3000) to 550 HBW(10/3000)
666	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Brinell Hardness Test	ASTM A370-A: 2017	100 HBW(2.5/187.5) to 550 HBW(2.5/187.5)
667	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Brinell Hardness test	ASTM A370-A: 2017	20 HBW(10/1000) to 200 HBW(10/1000)

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668	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Brinell Hardness Test	ASTM A370-A: 2017	50 HBW(10/500) to 150 HBW(10/500)
669	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Brinell Hardness Test	ASTM A370-A: 2017	50 HBW (5.0/750) to 550 HBW (5.0/750)
670	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Charpy Impact Test (V notch & U notch) (Room temp & sub zero)	ASTM A370-A: 2017	10 Joule to 320 Joule [Sub-Zero Temperature: (-)110°C to 35°C & (-)196°C]
671	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Crushing Test	ASTM A370-A: 2017	Qualitative(Max load upto 40 tons)
672	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Elongation	ASTM A370-A: 2017	1 % to 85 %
673	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Flaring Test	ASTM A370-A: 2017	Qualitative(Max load 40 tons; max dia 60mm; angle 60deg)
674	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Flattening Test	ASTM A370-A: 2017	Qualitative(Max 400mm OD)

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675	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Micro Hardness Test	ASTM A370-A: 2017	10 HV0.3 to 1000 HV0.3
676	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Micro Hardness Test	ASTM A370-A: 2017	10 HV0.01 to 400 HV0.01
677	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Micro Hardness Test	ASTM A370-A: 2017	10 HV0.05 to 450 HV0.05
678	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Micro Hardness Test	ASTM A370-A: 2017	10 HV1 to 1500 HV1
679	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Micro Hardness Test	ASTM A370-A: 2017	10 HV0.1 to 450 HV0.1
680	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Micro Hardness Test	ASTM A370-A: 2017	10 HV0.5 to 1500 HV0.5
681	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Micro Hardness Test	ASTM A370-A: 2017	10 HV0.2 to 900 HV0.2

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682	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Micro Hardness Test	ASTM A370-A: 2017	10 HV0.025 to 400 HV0.025
683	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Proof Strength	ASTM A370-A: 2017	15 MPa to 2500 MPa
684	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Reduction	ASTM A370-A: 2017	1 % to 90 %
685	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Rockwell Hardness Test	ASTM A370-A: 2017	20 HRC to 70 HRC
686	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Rockwell Hardness Test	ASTM A370-A: 2017	70 HR15N to 90 HR15N
687	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Rockwell Hardness Test	ASTM A370-A: 2017	61 HR45N to 70 HR45N
688	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Rockwell Hardness Test	ASTM A370-A: 2017	73 HR15TW to 93 HR15TW

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689	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Rockwell Hardness Test	ASTM A370-A: 2017	40 HRA to 88 HRA
690	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Rockwell Hardness Test	ASTM A370-A: 2017	55 HR30N to 90 HR30N
691	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Rockwell Hardness Test	ASTM A370-A: 2017	43 HR30TW to 82 HR30TW
692	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Rockwell Hardness Test	ASTM A370-A: 2017	15 HR45TW to 72 HR45TW
693	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Rockwell Hardness Test	ASTM A 370-A: 2017	20 HRBW to 100 HRBW
694	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Tensile Strength	ASTM A370-A: 2017	25 MPa to 3500 MPa
695	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Vickers Hardness Test	ASTM A370-A: 2017	10 HV30 to 1500 HV30

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696	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Vickers Hardness Test	ASTM A370-A: 2017	10 HV20 to 1500 HV20
697	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Vickers Hardness Test	ASTM A370-A: 2017	10 HV10 to 1500 HV10
698	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Vickers Hardness Test	ASTM A370-A: 2017	10 HV5 to 1500 HV5
699	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Iron & Steel Alloys	Yield Strength	ASTM A370-A: 2017	15 MPa to 2500 MPa
700	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Stainless Steel	Macro Examination	IS 3600 (Part 9) 1985: 2013	Qualitative
701	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Threaded Steel Fasteners	Proof Load Test	IS 1367 (Part 3): 2017	Qualitative(Max Load 40 tons)
702	MECHANICAL-METALLOGRAPHY TEST	Aluminium & Aluminium Alloy Products	Macro Examination	IS 12573 : 2010 RA: 2017	Qualitative
703	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Microstructure of graphite in Cast Iron	ASTM A247: 2017	Qualitative(Graphite size; Graphite distribution)

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704	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Nodule & Nodule count using Image Analysis	ASTM E2567a: 2016	Qualitative(Nodule count; Nodularity)
705	MECHANICAL-METALLOGRAPHY TEST	Copper & Copper Alloys	Mercurous Nitrate Test	IS 2305 : 1988 RA: 2015	Qualitative
706	MECHANICAL-METALLOGRAPHY TEST	Copper & Copper Alloys	Mercurous Nitrate test	ASTM B154 : 2016	Qualitative
707	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non ferrous	Average Grain Size by comparison Method	ASTM E112: 2013	Qualitative((grain size from ASTM No 1 to 10))
708	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous	Determining Average Grains size using Image Analysis	ASTM E1382: 97 RA: 2015	0.5 ASTM No to 15 ASTM No
709	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous	Thickness of Electroplated Coating	IS 3203 : 1982 RA: 2016	0.001 mm to 0.5 mm
710	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous	Welding, Brazing & Fusion examination	ASME Sec IX: 2017	Qualitative
711	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals	Macro Examination	ASTM E340: 2015	Qualitative
712	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals	Microstructural Analysis	ASM Handbook Vol 9: 2004	Qualitative((50X to 1000X))

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713	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals	Welding-Fusion Welded Joint; Macro & Dimensional Measurement of Weld Joint	ISO 5817: 2014	Qualitative
714	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Average Grain Size by comparison	IS 4748 2009 RA: 2017	Qualitative((Grain Size Number from 1 to 10))
715	MECHANICAL-METALLOGRAPHY TEST	Nickel rich Chromium Bearing Steel	Susceptibility to Intergranular Corrosion	ASTM G28:2002 (Method A & B) RA: 2015	upto 10000mils/year
716	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Susceptibility to Intergranular Attack	ASTM A262 prac B: 2015	upto 10000 mils/ year
717	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Susceptibility to Intergranular Attack	ASTM A262 Prac E: 2015	Qualitative
718	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Susceptibility to Intergranular Attack	ASTM A262 prac C: 2015	upto 10000mils/ year
719	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Susceptibility to Intergranular Attack	ASTM A262 IGC Prac A: 2015	Qualitative
720	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel & related alloys	Pitting & Crevice Corrosion Resistance	ASTM G48:2011 (Method A,B, C & E) RA: 2015	Qualitative((Weight loss upto 40g))
721	MECHANICAL-METALLOGRAPHY TEST	Steel	Case Depth	ISO 18203: 2016	0.001 mm to 5.00 mm

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722	MECHANICAL-METALLOGRAPHY TEST	Steel	Case Depth	IS 6416: 1988 RA: 2018	0.001 mm to 5.00 mm
723	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of Decarburisation	ASTM E1077: 2014	0.001 mm to 0.50 mm
724	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of Decarburisation	IS 6396: 2000 RA: 2018	0.001 mm to 0.50 mm
725	MECHANICAL-METALLOGRAPHY TEST	Steel	Macro Examination	IS 11371: 1985 RA: 2018	Qualitative
726	MECHANICAL-METALLOGRAPHY TEST	Steel	Macro Examination	IS 13015 :1991 RA: 2018	Qualitative
727	MECHANICAL-METALLOGRAPHY TEST	Steel	Non Metallic Inclusion Content	IS 4163:2004 RA: 2017	Upto rating No 5
728	MECHANICAL-METALLOGRAPHY TEST	Steel	Non Metallic Inclusion Content	ASTM E45 Method A: 2018	upto rating No 5
729	MECHANICAL-METALLOGRAPHY TEST	Steel & Stainless Steel	Macro Examination	IS 7310 pt 1: 1974 RA: 2011	Qualitative
730	MECHANICAL-METALLOGRAPHY TEST	Steel & Stainless Steel	Macro Examination	IS 7318 pt 1:1974 RA: 2013	Qualitative
731	MECHANICAL-METALLOGRAPHY TEST	Steel Bars, blooms & Billets	Macro Examination	ASTM E381: 2017	Qualitative

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732	MECHANICAL-METALLOGRAPHY TEST	Steel, Alloy Steel, Duplex steel & Stainless Steel	Ferrite Content	ASTM E562: 2011	upto 65%
733	MECHANICAL-METALLOGRAPHY TEST	Steel, Alloy Steel, Duplex steel & Stainless Steel	Inclusion or second phase constituent by Image Analysis	ASTM E1245: 03 RA: 2016	0.1 % to 65 %
734	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic Composites	Elongation	IS 13360 Part 5 Section 1 : 2018	0.1 % to 4 %
735	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic Composites	Elongation	ISO 527-4: 1997	0.1 % to 4 %
736	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic Composites	Elongation	ASTM D638: 2014	0.1 % to 4 %
737	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic Composites	Flexural Modulus of Elasticity	IS 13360 Part 5 Section 7 : 2017	1000 MPa to 15000 MPa
738	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic Composites	Flexural Modulus of Elasticity	ASTM D790: 2017	1000 MPa to 15000 MPa
739	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic Composites	Flexural Modulus of Elasticity	ISO 178: 2010	1000 MPa to 15000 MPa
740	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic Composites	Flexural Strength	IS 13360 Part 5 Section 7 : 2017	5 MPa to 400 MPa
741	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic Composites	Flexural Strength	ASTM D790: 2017	5 MPa to 400 MPa

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742	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic Composites	Flexural Strength	ISO 178: 2010	5 MPa to 400 MPa
743	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic Composites	Hardness in SHORE D	ASTM D2240: 2015	10 SHORE D to 90 SHORE D
744	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic Composites	Hardness in SHORE D	IS 13360 Part 5 Section 11: 2013	10 SHORE D to 90 SHORE D
745	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic Composites	Modulus of Elasticity	IS 13360 Part 5 Section 1: 2018	1000 MPa to 15000 MPa
746	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic Composites	Modulus of Elasticity	ISO 527-4: 1997	1000 MPa to 15000 MPa
747	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic Composites	Modulus of Elasticity	ASTM D638: 2014	1000 MPa to 15000 MPa
748	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic Composites	Rockwell Hardness	IS 13360 Part 5 Section 13 1992: 2013	50 HRR to 120 HRR
749	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic Composites	Tensile Strength @ break	IS 13360 Part 5 Section 1: 2018	5 MPa to 250 MPa
750	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic Composites	Tensile Strength @ break	ISO 527-4: 1997	5 MPa to 250 MPa
751	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic Composites	Tensile Strength @ break	ASTM D638: 2014	5 MPa to 250 MPa

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752	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Vulcanized Rubbers	Accelerated Ageing in Air	IS 3400 Part 4 2012: 2017	Qualitative
753	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Vulcanized Rubbers	Accelerated Ageing in Air	ASTM D573 2004: 2015	Qualitative
754	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Vulcanized Rubbers	Compression Set at Constant Strain	IS 3400 Part 10 1977: 2013	2 % to 60 %
755	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Vulcanized Rubbers	Compression Set at Constant Strain	ASTM D395: 2016	2 % to 60 %
756	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Vulcanized Rubbers	Elongation	IS 3400 Part 1 2012: 2017	50 % to 600 %
757	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Vulcanized Rubbers	Elongation	ASTM D412: 2016	50 % to 600 %
758	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Vulcanized Rubbers	Hardness in SHORE A	ASTM D2240: 2015	10 SHORE A to 90 SHORE A
759	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Vulcanized Rubbers	Tensile Strength @ break	IS 3400 Part 1 2012: 2017	2 MPa to 70 MPa
760	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Vulcanized Rubbers	Tensile Strength @ break	ASTM D412: 2016	2 MPa to 70 MPa