



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name AIMS MET LAB INTL, #46, (OLD NO.2), KARNAN STREET, TIRUVALLUR, CHENNAI, TAMIL NADU, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-8456 Page No. : 1 / 19
Validity 22/04/2019 to 21/04/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Chromium	ASTM E1251: 2017	0.015 % to 0.15 %
2	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Cobalt	ASTM E1251: 2017	0.4 % to 0.65 %
3	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	ASTM E1251: 2017	0.001 % to 9.00 %
4	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	ASTM E1251: 2017	0.025 % to 1.20 %
5	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Lead	ASTM E1251: 2017	0.0001 % to 0.800 %
6	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	ASTM E1251: 2017	0.001 % to 14.50 %
7	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Manganese	ASTM E1251: 2017	0.001 % to 0.60 %
8	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Nickel	ASTM E1251: 2017	0.005 % to 1.60 %
9	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Silicon	ASTM E1251: 2017	0.001 % to 22.00 %
10	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Tin	ASTM E1251: 2017	0.010 % to 0.15 %
11	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Titanium	ASTM E1251: 2017	0.010 % to 0.250 %
12	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Vanadium	ASTM E1251: 2017	0.002 % to 0.040 %
13	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Zinc	ASTM E1251: 2017	0.002 % to 12.50 %



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14	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Zirconium	ASTM E1251: 2017	0.0010 % to 0.300 %
15	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Aluminium	ASTM E415: 2017	0.001 % to 0.10 %
16	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Aluminium	JIS G 1253: 2002	0.001 % to 0.10 %
17	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Aluminium	IS 8811: 1998	0.0010 % to 0.10 %
18	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Arsenic	JIS G 1253: 2002	0.001 % to 0.05 %
19	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Boron	IS 8811: 1998	0.005 % to 0.01 %
20	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Boron	ASTM E415: 2017	0.0004 % to 0.007 %
21	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Boron	JIS G 1253: 2002	0.0005 % to 0.005 %
22	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Carbon	JIS G 1253: 2002	0.0001 % to 1.150 %
23	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Carbon	ASTM E415: 2017	0.01 % to 1.15 %
24	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Carbon	IS 8811: 1998	0.01 % to 1.5 %
25	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Chromium	ASTM E415: 2017	0.040 % to 2.50 %
26	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Chromium	JIS G 1253: 2002	0.040 % to 2.50 %
27	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Chromium	IS 8811: 1998	0.040 % to 2.50 %



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28	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Cobalt	IS 8811: 1998	0.001 % to 0.050 %
29	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Cobalt	JIS G 1253: 2002	0.001 % to 0.05 %
30	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Cobalt	ASTM E415: 2017	0.001 % to 0.050 %
31	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Copper	JIS G 1253: 2002	0.001 % to 0.600 %
32	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Copper	ASTM E415: 2017	0.001 % to 0.50 %
33	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Lead	JIS G 1253: 2002	0.001 % to 0.5 %
34	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Manganese	JIS G 1253: 2002	0.010 % to 0.50 %
35	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Manganese	ASTM E415: 2017	0.03 % to 2.0 %
36	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Manganese	IS 8811: 1998	0.01 % to 2 %
37	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Molybdenum	JIS G 1253: 2002	0.010 % to 0.50 %
38	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Molybdenum	IS 8811: 1998	0.01 % to 0.50 %
39	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Molybdenum	ASTM E415: 2017	0.010 % to 0.50 %
40	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Nickel	ASTM E415: 2017	0.010 % to 2.00 %
41	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Nickel	IS 8811: 1998	0.10 % to 2.00%

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42	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Nickel	JIS G 1253: 2002	0.10 % to 2.00 %
43	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Niobium	IS 8811: 1998	0.003 % to 0.100 %
44	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Niobium	ASTM E415: 2017	0.003 % to 0.12 %
45	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Niobium	JIS G 1253: 2002	0.003 % to 0.100 %
46	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Nitrogen	JIS G 1253: 2002	0.001 % to 0.15 %
47	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Nitrogen	ASTM E415: 2017	0.001 % to 0.015
48	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Phosphorous	ASTM E415: 2017	0.001 % to 0.085 %
49	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Phosphorous	IS 8811: 1998	0.005 % to 0.1 %
50	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Phosphorus	JIS G 1253: 2002	0.0010 % to 0.10 %
51	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Silicon	IS 8811: 1998	0.05 % to 0.50 %
52	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Silicon	ASTM E415: 2017	0.02 % to 0.50 %
53	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Silicon	JIS G 1253: 2002	0.001 % to 0.50 %
54	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Sulfur	JIS G 1253: 2002	0.001 % to 0.40 %
55	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Sulfur	ASTM E415: 2017	0.001 % to 0.055 %



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56	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Sulfur	IS 8811: 1998	0.005 % to 0.1 %
57	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Tin	JIS G 1253: 2002	0.001 % to 0.050 %
58	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Tin	ASTM E415: 2017	0.005 % to 0.050 %
59	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Tin	IS 8811: 1998	0.001 % to 0.050 %
60	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Titanium	IS 8811: 1998	0.010 % to 0.015 %
61	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Titanium	ASTM E415: 2017	0.001 % to 0.015 %
62	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Titanium	JIS G 1253: 2002	0.0010 % to 0.0150 %
63	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Tungsten	JIS G 1253: 2002	0.001 % to 0.25 %
64	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Vanadium	JIS G 1253: 2002	0.001 % to 0.20 %
65	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Vanadium	ASTM E415: 2017	0.005 % to 0.25 %
66	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steels	Vanadium	IS 8811: 1998	0.01 % to 0.25 %
67	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	JIS G 1253: 2002	0.001 % to 1.50 %
68	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086: 2014	0.001 % to 0.15 %
69	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879: 1998	0.001 % to 0.150 %



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70	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	JIS G 1253: 2002	0.001 % to 0.15 %
71	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879: 1998	8.00 % to 26.00 %
72	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	JIS G 1253: 2002	8.00 % to 26.00 %
73	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086: 2014	8.00 % to 26.00 %
74	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	JIS G 1253: 2002	0.010 % to 0.200 %
75	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	JIS G 1253: 2002	0.10 % to 1.00 %
76	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086: 2014	0.01 % to 0.30 %
77	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879: 1998	0.05 % to 0.5 %
78	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879: 1998	0.1 % to 5 %
79	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	JIS G 1253: 2002	0.003 % to 19 %
80	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086: 2014	0.01 % to 2 %
81	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	JIS G 1253: 2002	0.001 % to 10 %
82	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086: 2014	0.01 % to 3 %
83	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879: 1998	0.05 % to 2.50 %



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84	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879: 1998	1.00 % to 22.00 %
85	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086: 2014	7.5 % to 13 %
86	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	JIS G 1253: 2002	1.00 % to 22.00
87	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	JIS G 1253: 2002	0.005 % to 0.050 %
88	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	JIS G 1253: 2002	0.001 % to 0.15 %
89	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous	JIS G 1253: 2002	0.010 % to 0.045 %
90	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous	ASTM E1086: 2014	0.003 % to 0.045 %
91	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous	IS 9879: 1998	0.002 % to 0.1 %
92	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879: 1998	0.10 % to 1.00 %
93	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	JIS G 1253: 2002	0.10 % to 1.00 %
94	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086: 2014	0.10 % to 0.90 %
95	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulfur	ASTM E1086: 2014	0.001 % to 0.035 %
96	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulfur	JIS G 1253: 2002	0.001 % to 0.035 %
97	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879: 1998	0.001 % to 0.035 %

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98	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	JIS G 1253: 2002	0.001 % to 0.15 %
99	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tungsten	JIS G 1253: 2002	0.01 % to 0.05 %
100	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	JIS G 1253: 2002	0.020 % to 0.20 %
101	CHEMICAL- METALS & ALLOYS	Titanium & Titanium Alloys	Aluminium	ASTM E2994: 2016	0.008 % to 8.00 %
102	CHEMICAL- METALS & ALLOYS	Titanium & Titanium Alloys	Chromium	ASTM E2994: 2016	0.006 % to 3.25 %
103	CHEMICAL- METALS & ALLOYS	Titanium & Titanium Alloys	Copper	ASTM E2994: 2016	0.014 % to 0.1 %
104	CHEMICAL- METALS & ALLOYS	Titanium & Titanium Alloys	Iron	ASTM E2994: 2016	0.043 % to 0.3 %
105	CHEMICAL- METALS & ALLOYS	Titanium & Titanium Alloys	Molybdenum	ASTM E2994: 2016	0.001 % to 1.00 %
106	CHEMICAL- METALS & ALLOYS	Titanium & Titanium Alloys	Nickel	ASTM E2994: 2016	0.006 % to 1.00 %
107	CHEMICAL- METALS & ALLOYS	Titanium & Titanium Alloys	Tin	ASTM E2994: 2016	0.02 % to 0.1 %
108	CHEMICAL- METALS & ALLOYS	Titanium & Titanium Alloys	Vanadium	ASTM E2994: 2016	0.001 % to 15.50 %
109	CHEMICAL- METALS & ALLOYS	Titanium & Titanium Alloys	Zirconium	ASTM E2994: 2016	0.001 % to 0.05 %
110	CHEMICAL- METALS & ALLOYS	Titanium & Titanium Alloys	Silicon	ASTM E2994: 2016	0.001 % to 0.100 %
111	CHEMICAL- METALS & ALLOYS	Tool Steel	Aluminium	JIS G 1253: 2002	0.001 % to 0.30 %



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112	CHEMICAL- METALS & ALLOYS	Tool Steel	Arsenic	JIS G 1253: 2002	0.001 % to 0.10 %
113	CHEMICAL- METALS & ALLOYS	Tool Steel	carbon	JIS G 1253: 2002	0.001 % to 1.50 %
114	CHEMICAL- METALS & ALLOYS	Tool Steel	chromium	JIS G 1253: 2002	0.002 % to 5.50 %
115	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	JIS G 1253: 2002	0.001 % to 5.50 %
116	CHEMICAL- METALS & ALLOYS	Tool Steel	Copper	JIS G 1253: 2002	0.001 % to 0.400 %
117	CHEMICAL- METALS & ALLOYS	Tool Steel	manganese	JIS G 1253: 2002	0.001 % to 1.25 %
118	CHEMICAL- METALS & ALLOYS	Tool Steel	molybdenum	JIS G 1253: 2002	0.010 % to 1.50 %
119	CHEMICAL- METALS & ALLOYS	Tool Steel	nickel	JIS G 1253: 2002	0.001 % to 0.50 %
120	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosporous	JIS G 1253: 2002	0.0005 % to 1 %
121	CHEMICAL- METALS & ALLOYS	Tool Steel	silicon	JIS G 1253: 2002	0.10 % to 2.20 %
122	CHEMICAL- METALS & ALLOYS	Tool Steel	sulphur	JIS G 1253: 2002	0.001 % to 0.050 %
123	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	JIS G 1253: 2002	0.010 % to 20.00 %
124	CHEMICAL- METALS & ALLOYS	Tool Steel	vanadium	JIS G 1253: 2002	0.050 % to 1.50 %
125	CHEMICAL- METALS & ALLOYS	Zinc & Zinc Alloys	Aluminium	ISO 3815-1: 2005	0.005 % to 35 %

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126	CHEMICAL- METALS & ALLOYS	Zinc & Zinc Alloys	Cadmium	ISO 3815-1: 2005	0.002 % to 0.06 %
127	CHEMICAL- METALS & ALLOYS	Zinc & Zinc Alloys	Copper	ISO 3815-1: 2005	0.001 % to 4 %
128	CHEMICAL- METALS & ALLOYS	Zinc & Zinc Alloys	Iron	ISO 3815-1: 2005	0.001 % to 0.100 %
129	CHEMICAL- METALS & ALLOYS	Zinc & Zinc Alloys	Lead	ISO 3815-1: 2005	0.001 % to 0.500 %
130	CHEMICAL- METALS & ALLOYS	Zinc & Zinc Alloys	Magnesium	ISO 3815-1: 2005	0.001 % to 0.20 %
131	CHEMICAL- METALS & ALLOYS	Zinc & Zinc Alloys	Tin	ISO 3815-1: 2005	0.001 % to 0.12 %
132	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Including Weld Metals	Charpy V Impact Test at -196°C	ISO 148 -1: 2016	4 J to 240 J
133	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Including Weld Metals	Charpy V Impact Test at Temperature (-40 to 35 degC)	ISO 148 -1: 2016	4 J to 240 J
134	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Including Weld Metals	Hardness Test on Weld metals (Individual indentation)	ISO 9015 - 1: 2011	Qualitative(HV5 and HV10)
135	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Including Weld Metals	Impact - Izod Test	IS 1598: 1977	4 J to 164 J



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136	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Including Weld Metals	Tensile Strength	IS 1608: 2005	4 kN to 400 kN Load
137	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Including Weld Metals	Tensile Strength	ASTM E8 / E8M: 2016a	4 kN to 400 kN Load
138	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Including Weld Metals	Tensile Strength	ASTM A370: 2017a	4 kN to 400 kN Load
139	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Including Weld Metals	Transverse Bend Test	AWS D1.1/D1.1M: 2015	Qualitative(Mandrel diameter 38 mm)
140	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Including Weld Metals	Yield Strength and % Offset Proof Strength	ASTM E8/E8M: 2016a	4 kN to 400 kN
141	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Including Weld Metals	Yield Strength and % Offset Proof Strength	ASTM A370: 2017a	4 kN to 400 kN load
142	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals Including Weld Metals	Yield Strength and % Offset Proof Strength	IS 1608: 2005	4 kN to 400 kN load



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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
143	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Rockwell Hardness Test	IS 1586 (Part 1): 2012	45 HRBW to 100 HRBW
144	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Micro Vickers Hardness Test	ASTM E384: 2017	50 HV1 to 1000 HV1
145	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Micro Vickers Hardness Test	ASTM E384: 2017	50 HV0.5 to 1000 HV0.5
146	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Micro Vickers Hardness Test	ASTM E384: 2017	50 HV1 to 1000 HV1
147	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Micro Vickers Hardness Test	ASTM E384: 2017	50 HV0.2 to 1000 HV0.2
148	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Micro Vickers Hardness Test ,ECD	ASTM E384: 2017	50 HV0. 1 to 1000 HV0.1
149	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Rockwell Hardness Test	IS 1586 (Part 1): 2012	60 HRA to 90 HRA



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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
150	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Rockwell Hardness Test	ASTM E18: 2017	60 HRA to 90 HRA
151	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Rockwell Hardness Test	ASTM E18: 2017	20 HRC to 65 HRC
152	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Rockwell Hardness Test	ASTM E18: 2017	45 HRBW to 100 HRBW
153	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Rockwell Hardness Test	IS 1586 (Part 1): 2012	20 HRC to 65 HRC
154	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Rockwell Superficial Hardness Test	ASTM E18: 2017	42 HR30N to 80 HR30N
155	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Rockwell Superficial Hardness Test	ASTM E18: 2017	70 HR15N to 94 HR15N
156	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Rockwell Superficial Hardness Test	IS 1586 (Part 1): 2012	42 HR30N to 80 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
157	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Rockwell Superficial Hardness Test	IS 1586 (Part 1): 2012	70 HR15N to 94 HR15N
158	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Vickers Hardness Test	IS 1501 (Part 1): 2013	50 HV5 to 1000 HV5
159	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Vickers Hardness Test	ASTM E92: 2017	50 HV5 to 1000 HV5
160	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Vickers Hardness Test	ASTM E92: 2017	50 to 1000 HV5
161	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Vickers Hardness Test	IS 1501 (Part 1): 2013	50 HV10 to 1000 HV10
162	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Vickers Hardness Test	ASTM E92: 2017	50 HV1 to 1000 HV1
163	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Vickers Hardness Test	ASTM E92: 2017	50 HV10 to 1000 HV10



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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
164	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Alloy Products	Vickers Hardness Test	IS 1501 (Part 1): 2013	50 HV1, 5, 10 to 1000 HV1, 5, 10
165	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	IS 1608: 2005	5 % to 80 %
166	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	ASTM E8/E8M: 2016a	5 % to 80 %
167	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction in Area	IS 1608: 2005	10 % to 80 %
168	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction in Area	ASTM E8/E8M: 2016a	10 % to 80 %
169	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction in Area	ASTM A370: 2017a	10 % to 80 %
170	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	IS 1599: 2012	Qualitative(Mandrel ϕ 25 mm ϕ 30 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
171	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	% Elongation	ASTM A370: 2017a	5 % to 80 %
172	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel material	Bend Test	IS 1599: 2012	Qualitative(Mandrel Diameter \varnothing 25 mm \varnothing 30 mm)
173	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Weld in Metals - Stainless Steel	Tensile Strength	AWS D1.6/D1.6M: 2017	4 kN to 400 kN Load
174	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Weld in Metals - Structural Steel	Face/Root/Side bend	AWS D1.1/D1.1M: 2015	Qualitative(Mandrel Diameter 38 mm)
175	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Weld in Metals - Structural Steel	Tensile Strength	AWS D1.1/D1.1M: 2015	4 kN to 400 kN Load
176	MECHANICAL- METALLOGRAPHY TEST	Case hardened steel	Total Case depth (microscopic method).	IS 6416: 1988	Qualitative(Quantitative 0.01 to 1.0 mm)
177	MECHANICAL- METALLOGRAPHY TEST	Cast Iron	Graphite in Cast Iron	IS 7754: 1975	Qualitative
178	MECHANICAL- METALLOGRAPHY TEST	Cast Iron	Graphite in Cast Iron (Form, Size, Distribution, Nodularity and Nodule Count)	ASTM A247: 2017	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
179	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals	Case Depth (By Microscope)	IS 6416: 1988	Qualitative(Quantitative 0.01 and 1.0 mm, Magnification 100 X)
180	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals	Surface hardened layer Thickness (micro hardness method)	ISO 18203: 2016	Qualitative(Quantitative 0.03 to 15.0 mm)
181	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals Including Weld Metals	Effective Case Depth(Hardness Method) HV0.5	IS 6416: 1988	50 HV0.5 to 1000 HV0.5
182	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals Including Weld Metals	Effective Case Depth(Micro Hardness Method) HV 0.3	IS 6416: 1988	0.03 mm to 15.0 mm
183	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals Including Weld Metals	Effective Case Depth(Micro Hardness Method) HV 1	IS 6416: 1988	0.03 mm to 15.0 mm
184	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals Including Weld Metals	Effective Case Depth(Micro Hardness Method) HV0.1	IS 6416: 1988	0.03 mm to 15.0 mm
185	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals Including Weld Metals	Effective Case Depth(Micro Hardness Method) HV0.2	IS 6416: 1988	0.03 mm to 15.0 mm
186	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals Including Weld Metals	Micro Vickers Hardness	IS 6416: 1988	50 HV0.2 to 1000 HV0.2
187	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals Including Weld Metals	Micro Vickers Hardness	ASTM E384: 2017	50 HV0.3 to 1000 HV0.3
188	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals Including Weld Metals	Micro Vickers Hardness	ASTM E384: 2017	50 HV0.5 to 1000 HV0.5



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
189	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals Including Weld Metals	Micro Vickers Hardness	ASTM E384: 2017	50 HV1 to 1000 HV1
190	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals Including Weld Metals	Micro Vickers Hardness	ASTM E384: 2017	50 HV0.1 to 1000 HV0.1
191	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals Including Weld Metals	Surface Hardened Layer thickness (Micro Hardness Method)	ISO 18203: 2016	0.03 mm to 15.0 mm
192	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Metals Including Weld Metals	Surface hardened layer thickness (Microscopic Method)	ISO 18203: 2016	0.01 mm to 1.0 mm
193	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non ferrous metal including Weld metals	Macro etch test	ASTM E340: 2015	Qualitative
194	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous metal including Weld metals	Macro etch Test	ASTM E381: 2017	Qualitative
195	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non ferrous metals	Decarburization (By Microscope)	ASTM E1077: 2014	Qualitative(Quantitative 0.01 to 1.0 mm at 100X)
196	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non ferrous metals	Decarburization (By Microscope)	IS 6396: 2014	Qualitative(Quantitative 0.01 to 1.0 mm @ 100X)
197	MECHANICAL-METALLOGRAPHY TEST	Ferrous Weld metals	Macro etch Test	ASME (Sec IX): 2017	Qualitative
198	MECHANICAL-METALLOGRAPHY TEST	Low alloy steel	Ferritic Grain Size - Comparison Method	IS 4748: 2009	Qualitative(1 to 10 at 100X)



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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
199	MECHANICAL- METALLOGRAPHY TEST	Low alloy steel	Ferritic Grain Size - Comparison Method, Plate - I.	ASTM E112: 2013	Qualitative(ASTM 1 to 10 at 100X)
200	MECHANICAL- METALLOGRAPHY TEST	Metallic coating on metals.	Thickness of Coating (Microscope Method)	ASTM B487: 1985	0.01 mm to 1.0 mm
201	MECHANICAL- METALLOGRAPHY TEST	Steel	Inclusion Rating Test Method - A ,B,C & D	IS 4163: 2004	Qualitative(At 100X Thin/Heavy A,B,C,D; 0.5 to 3.0)
202	MECHANICAL- METALLOGRAPHY TEST	Steel, Cast iron, Aluminium alloy, Copper Alloy.	Micro Examination	ASM handbook volume 9: 2004	Qualitative
203	MECHANICAL- METALLOGRAPHY TEST	Wrought steel products	Macro etch Test	IS 11371: 1985	Qualitative