National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NORDEN TECHLAB (OPC) PRIVATE LIMITED, GROUND FLOOR NO:19, SF. NO:476/4, LAKSHMI GARDEN 3A, BALAJI INDUSTRIAL ESTATE, KEERANATHAM, COIMBATORE, TAMIL NADU, INDIA

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Testing				
1	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys and Zinc Base Alloys	Rockwell Hardness Test (HRBW)	ASTM E18
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium Base Alloys, Nickel Base Alloys.	Brinell Hardness (HBW 2.5/187.5)	IS 1500(Part -1)
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium Base Alloys, Nickel Base Alloys.	Brinell Hardness (HBW 5/750)	IS 1500(Part -1)
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys	Brinell Hardness (HBW 10/1000)	IS 1500(Part -1)
5	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys	Brinell Hardness (HBW 10/1000)	ISO 6506-1
6	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys	Brinell Hardness (HBW 10/500)	ASTM E10
7	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys	Brinell Hardness (HBW 10/500)	IS 1500(Part -1)
8	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys	Brinell Hardness (HBW 10/500)	ISO 6506-1
9	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys	Brinell Hardness (HBW 5/250)	ISO 6506-1

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10	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys.	% Elongation	ASTM E8/E8M
11	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys.	% Reduction of Area	ASTM E8/E8M
12	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys.	Brinell Hardness (HBW 10/1000)	ASTM E10
13	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Zinc Base Alloys	Brinell Hardness (HBW 5/250)	IS 1500(Part -1)
14	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys	Tensile Strength	ASTM E8/E8M
15	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys	Yield Strength	ASTM E8/E8M
16	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys	Yield Strength	IS 1608 (Part - 1)
17	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys	Yield Strength(0.2% offset)	ASTM E8/E8M
18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys.	% Elongation	IS 1608 (Part -1)

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19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys.	% Reduction of Area	IS 1608 (Part -1)
20	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys.	0.2% Proof Strength	IS 1608 (Part - 1)
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys.	1% Proof strength	IS 1608(Part-1)
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys.	Tensile Strength	IS 1608 (Part - 1)
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys.	Yield Strength(1% offset)	ASTM E8/E8M
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Zinc Base Alloys	Rockwell Hardness (HRBW)	IS 1586-1
25	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Zinc Base Alloys.	Brinell Hardness (HBW 10/1000)	IS 1500(Part -1)
26	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum Base Alloys, Zinc Base Alloys.	Brinell Hardness (HBW 5/250)	ASTM E10
27	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and Low Alloy Steel Tube	Flaring Test	ASTM A450/A450M

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28	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	% Elongation	ASTM E8/E8M
29	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	% Elongation	IS 1608(Part-1)
30	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	% Elongation	ISO 6892-1
31	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	% Reduction of Area	ASTM E8/E8M
32	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	% Reduction of Area	IS 1608(Part-1)
33	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	% Reduction of Area	ISO 6892-1
34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	0.2% Proof Strength	ISO 6892-1
35	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	0.2% Proof Strength	IS 1608(Part-1)
36	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	1% Proof Strength	IS 1608(Part-1)

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37	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	1% Proof strength	ISO 6892-1
38	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Bend Test	IS 1599
39	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Bend Test	ISO 7438
40	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Brinell Hardness (HBW 10/1000)	ASTM E10
41	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Brinell Hardness (HBW 10/1000)	IS 1500(Part -1)
42	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Brinell Hardness (HBW 10/1000)	ISO 6506-1
43	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Brinell Hardness (HBW 10/3000)	ASTM E10
44	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Brinell Hardness (HBW 2.5/187.5)	ASTM E10
45	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Brinell Hardness (HBW 5/250)	ASTM E10

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46	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Brinell Hardness (HBW 5/250)	IS 1500(Part -1)
47	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Brinell Hardness (HBW 5/750)	ASTM E10
48	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Brinell Hardness(HBW 5/250)	ISO 6506-1
49	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Charpy Impact Test (Room temperature to (-)120 Deg C & at (-)196 Deg C)	IS 1757 (Part 1)
50	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Charpy Impact Test (Room temperature to (-)120 Deg C & at (-)196 Deg C)	ISO 148-1
51	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Charpy Impact Test (Room temperature to (-)120 deg C & at (-)196 Deg C)	ASTM E23
52	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Rockwell Hardness (HRBW)	ASTM E18
53	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Rockwell Hardness (HRBW)	IS 1586 (Part 1)
54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Rockwell Hardness (HRBW)	ISO 6508-1

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55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Tensile Strength	ASTM E8/E8M
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Tensile Strength	IS 1608(Part -1)
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Tensile Strength	ISO 6892-1
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Vickers Hardness - HV10	ASTM E92
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Vickers Hardness - HV5	ASTM E92
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Vickers Hardness HV 10	IS 1501(Part-1)
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Vickers Hardness HV10	ISO 6507-1
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Vickers Hardness -HV5	IS 1501(Part-1)
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Vickers Hardness -HV5	ISO 6507-1

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64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Yield Strength	ASTM E8/E8M
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Yield Strength	IS 1608(Part - 1)
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Yield Strength	ISO 6892-1
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys	Yield Strength (0.2% offset)	ASTM E8/E8M
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper alloys	Yield Strength(1% offset)	ASTM E8/E8M
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Copper Alloys.	Bend Test	ASTM E290
70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Duplex Austenitic/Ferritic Stainless Steels	Charpy Impact Test ((-)40Deg C to (-)50Deg C)	ASTM A923 (Method B)
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Duplex Austenitic/Ferritic Stainless Steels	Charpy Impact Test (Room Temperature to (-)50Deg C)	ISO 17781
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Weld Material	Tensile Strength	ASME Sec IX (QW-150,QW-151,QW-152 ,QW-153)

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73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Weld Material	Vickers Hardness - HV5	BS EN ISO 9015-1
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Weld Material	Vickers Hardness- HV10	BS EN ISO 9015-1
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	% Elongation	ASTM E8/E8M
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	% Elongation	ISO 6892-1
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	% Reduction of Area	ASTM E8/E8M
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	% Reduction of Area	ISO 6892-1
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	0.2% &1% Proof Stress	ISO 6892-1
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	Bend Test (Face Bend, Root Bend, Side Bend)	ASME Sec IX, (QW-160,QW-161,QW-162 ,QW-163)
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non ferrous Welded Material	Bend Test (Face Bend, Root Bend, Side Bend)	ISO 5173

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82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	Charpy Impact Test (Room Temperature to (-) 120Deg C & at (-)196Deg C)	ISO 9016
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	Charpy Impact Test (Room temperature to (-)120 Deg C & at (-)196 Deg C	ASTM E23
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	Charpy Impact Test (Room temperature to(-)120 Deg C & (-)196 Deg C)	ISO 148-1
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	Fracture Test	ASME Sec IX (QW- 182)
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	Fracture Test	BS EN ISO 9017
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non ferrous Welded Material	Impact Test - Charpy (Room temperature to (-)120 deg C & at (-)196 deg C)	IS 1757 (Part-1)
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	Rockwell Hardness (HRBW)	ASTM E18
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	Rockwell Hardness (HRC)	ISO 6508-1
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	Rockwell Hardness(HRBW)	ISO 6508-1

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91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	Tensile Strength	ISO 4136
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	Tensile Strength	ISO 6892-1
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	Vickers Hardness- HV5	ASTM E92
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	Vickers Hardness- HV5	ISO 6507-1
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	Yield Strength	ASTM E8/E8M
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	Yield Strength	AWS B4.0
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	Yield Strength	ISO 6892-1
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Material	Yield Strength (0.2% offset)	ASTM E8/E8M
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Materials	% Elongation	AWS B4.0

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100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Materials	% Reduction of Area	AWS B4.0
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Materials	Bend Test (Face Bend, Root Bend, Side Bend)	AWS B4.0
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Materials	Bend Test(Face Bend, Root Bend, Side Bend)	ASTM E190
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Materials	Charpy Impact Test (Room Temperature to (-)120Deg C & at (-)196Deg C	ASME Sec IX
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Materials	Rockwell Hardness (HRC)	ASTM E18
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Materials	Tensile Strength	ASTM E8/E8M
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Materials	Tensile Strength	AWS B4.0
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Materials	Vickers Hardness - HV10	ASTM E92
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Materials	Vickers Hardness- HV10	ISO 6507-1

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109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Materials	Yield Strength (0.2% offset)	AWS B4.0
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non Ferrous Welded Materials	Yield Strength(1% Offset)	ASTM E8/E8M
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non ferrous Welded Materials	Yield Strength(1% Offset)	AWS B4.0
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material and alloys	Yield Strength - Elevated Temperature (50Deg C to 900Deg C)	ASTM E21
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials and Alloys	% Elongation - Elevated Temperature (50Deg C to 900Deg C)-	ISO 6892-2
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials and Alloys	% Elongation - Elevated Temperature (50Deg C to 900Deg C)	ASTM E21
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials and Alloys	% Elongation - Elevated Temperature (50Deg C to 900Deg C)	IS 1608(Part-2)
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials and Alloys	% Reduction of Area - Elevated Temperature (50Deg C to 900Deg C)	ASTM E21
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials and Alloys	% Reduction of Area - Elevated Temperature (50Deg C to 900Deg C)	IS 1608(Part-2)

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118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials and Alloys	% Reduction of Area - Elevated Temperature (50Deg C to 900Deg C)	ISO 6892-2
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials and Alloys	0.2% Proof Strength - Elevated Temperature (50Deg C to 900Deg C)	ISO 6892-2
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials and Alloys	0.2% Proof Strength - Elevated Temperature (50Deg C to 900Deg C)	IS 1608(Part-2)
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials and Alloys	1% Proof Strength - Elevated Temperature (50Deg C to 900Deg C)	ISO 6892-2
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials and alloys	1% Proof Strength- Elevated Temperature (50Deg C to 900Deg C)	IS 1608(Part-2)
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and Alloys	Tensile Strength - Elevated Temperature (50Deg C to 900Deg C)	ASTM E21
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials and Alloys	Tensile Strength - Elevated Temperature (50Deg C to 900Deg C)	ISO 6892-2
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials and Alloys	Tensile Strength - Elevated Temperature (50Deg C to 900Deg C)-	IS 1608(Part-2)
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials and Alloys	Yield Strength - Elevated Temperature (50Deg C to 900Deg C)	IS 1608(Part-2)

SCOPE OF ACCREDITATION

Laboratory Name : NORDEN TECHLAB (OPC) PRIVATE LIMITED, GROUND FLOOR NO:19, SF. NO:476/4, LAKSHMI GARDEN 3A, BALAJI INDUSTRIAL ESTATE, KEERANATHAM, COIMBATORE, TAMIL NADU, INDIA

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127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials and Alloys	Yield Strength - Elevated Temperature (50Deg C to 900Deg C)	ISO 6892-2
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials and Alloys	Yield Strength (0.2% Offset) - Elevated Temperature (50Deg C to 900Deg C)	ASTM E21
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials and alloys	Yield Strength (1%offset) - Elevated Temperature (50Deg C to 900Deg C)	ASTM E21
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires For Concrete Reinforcement	% Elongation	IS 1608(Part-1)
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	Bend Test	IS 1786
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed steel bars and wires for concrete reinforcement	mass per meter	IS 1786
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires For concrete Reinforcement	Rebend Test	IS 1786
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires For Concrete Reinforcement	Tensile Strength	IS 1608(Part-1)
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires For Concrete Reinforcement	Yield Strength	IS 1608(Part-1)

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136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys	Brinell Hardness (HBW 5/750)	ISO 6506-1
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloy	Tensile Strength - Elevated Temperature (50Deg C to 900Deg C)	ASTM E21
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys	0.2% Proof Strength - Elevated Temperature (50Deg C to 900Deg C)	IS 1608(Part-2)
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys	% Elongation - Elevated Temperature(50Deg C to 900Deg C)	ISO 6892-2
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys	% Reduction of Area - Elevated Temperature (50Deg C to 900Deg C)	IS 1608(Part-2)
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys	% Reduction of Area - Elevated Temperature (50Deg C to 900Deg C)	ISO 6892-2
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys	% Elongation - Elevated Temperature (50Deg C to 900Deg C)	ASTM E21
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys	% Elongation - Elevated Temperature (50Deg C to 900Deg C)	IS 1608(Part-2)
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys	% Reduction of Area - Elevated Temperature (50Deg C to 900Deg C)	ASTM E21

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145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys	0.2% Proof Strength - Elevated Temperature(50Deg C to 900Deg C)	ISO 6892-2
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys	1% Proof Strength - Elevated Temperature (50Deg C to 900Deg C)	IS 1608(Part-2)
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys	1% Proof Strength - Elevated Temperature (50Deg C to 900Deg C)	ISO 6892-2
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys	Tensile Strength - Elevated Temperature (50Deg C to 900Deg C)	IS 1608(Part-2)
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys	Tensile Strength - Elevated Temperature (50Deg C to 900Deg C)	ISO 6892-2
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys	Yield Strength (0.2% offset) - Elevated Temperature (50Deg C to 900Deg C)	ASTM E21
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys	Yield Strength - Elevated Temperature (50Deg C to 900Deg C)	ASTM E21
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys	Yield Strength - Elevated Temperature (50Deg C to 900Deg C)	IS 1608(Part-2)
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys	Yield Strength - Elevated Temperature(50Deg C to 900Deg C)	ISO 6892-2

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154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys	Yield Strength (1%offset) - Elevated Temperature (50Deg C to 900Deg C)	ASTM E21
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Aluminum Base Alloys , Titanium Base Alloys, Zinc Base Alloys	Rockwell Hardness (HRA)	ASTM E18
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Cobalt Base Alloys and Titanium Base Alloys	Rockwell Hardness (HRC)	ISO 6508-1
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys	Brinell Hardness (HBW 10/3000)	ASTM E10
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys	Brinell Hardness (HBW 10/3000)	IS 1500(Part -1)
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys	Brinell Hardness (HBW 10/3000)	ISO 6506-1
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys	Brinell Hardness (HBW 2.5/187.5)	ISO 6506-1
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys , Aluminum Base Alloys, Zinc Base Alloys	Bend Test	ASTM E290
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	% Elongation	ISO 6892-1

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163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	% Reduction of Area	ISO 6892-1
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	0.2%Proof Strength	ISO 6892-1
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	1% Proof Strength	ISO 6892-1
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	Bend Test	IS 1599
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	Bend Test	ISO 7438
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	Charpy Impact Test (Room Temperature to (-)120 Deg C & at (-)196 Deg C)	ASTM E23
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	Charpy Impact Test (Room temperature to (-)120 Deg C & at (-)196 Deg C)	IS 1757 (Part 1)
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	Charpy Impact Test (Room temperature to (-)120 Deg C & at (-)196 Deg C)	ISO 148-1
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	Rockwell Hardness (HRA)	IS 1586 (Part 1)

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172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	Rockwell Hardness (HRA)	ISO 6508-1
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	Rockwell Hardness (HRBW)	ISO 6508-1
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	Tensile Strength	ISO 6892-1
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	Yield Strength	ISO 6892-1
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Cobalt Base Alloys	Vickers Hardness- HV30	ASTM E92
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Cobalt Base Alloys	Vickers Hardness- HV30	IS 1501(Part-1)
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Cobalt Base Alloys	Vickers Hardness- HV30	ISO 6507-1
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Cobalt Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	Vickers Hardness - HV10	ASTM E92
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Cobalt Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	Vickers Hardness - HV10	IS 1501(Part-1)

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181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Cobalt Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	Vickers Hardness - HV10	ISO 6507-1
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Cobalt Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	Vickers Hardness - HV5	ASTM E92
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Cobalt Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	Vickers Hardness - HV5	IS 1501(Part-1)
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel Base Alloys, Titanium Base Alloys, Cobalt Base Alloys, Aluminum Base Alloys, Zinc Base Alloys	Vickers Hardness- HV5	ISO 6507-1
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain Carbon Steel, Cast Iron, Stainless Steel, Tool Steel ,Mild Steel and Alloy Steel	Rockwell Hardness Test (HRBW)	ISO 6508-1
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	% Elongation	ASTM A370
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	% Elongation	ASTM E8/E8M
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	% Elongation	IS 1608-1
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	% Elongation	ISO 6892-1

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190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	% Reduction of Area	ASTM A370
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	% Reduction of Area	ASTM E8/E8M
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	% Reduction of Area	IS 1608(Part-1)
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	% Reduction of Area	ISO 6892-1
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	0.2% Proof Strength	IS 1608(Part 1)
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	0.2% Proof Strength	ISO 6892 -1
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	1% Proof Strength	ISO 6892-1
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	Impact Test - Charpy (Room temperature to (-)120 deg C & at (-)196 deg C)	ASTM E23
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	Impact Test - Charpy (Room temperature to (-)120 deg C & at (-)196 deg C)	IS 1757 Part 1

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199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	Impact Test - Charpy (Room temperature to (-)120 deg C & at (-)196 deg C)	ISO 148 (Part -1)
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	Portable Hardness - 10/3000	ASTM E110
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	Tensile Strength	ASTM A370
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	Tensile Strength	IS 1608 (Part 1)
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	Tensile strength	ISO 6892 - 1
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	VICKERS HARDNESS - HV30	IS 1501 (Part-1)
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	Vickers Hardness (HV10)	ASTM E92
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	Vickers Hardness (HV10)	IS 1501(Part-1)
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	Yield strength	ASTM A370

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208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	Yield Strength	ASTM E8/E8M
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	Yield Strength	IS 1608 (Part 1)
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	Yield Strength	ISO 6892-1
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	Yield Strength (0.2% offset)	ASTM A370
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	Yield strength(0.2% offset)	ASTM E8/E8M
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	Yield Strength(1% Offset)	ASTM A370
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel	Yield Strength(1% Offset)	ASTM E8/E8M
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel.	1% Proof Strength	IS 1608(Part-1)
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel & Alloy steel.	Tensile Strength	ASTM E8/E8M

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217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, cast iron, stainless steels, tool steel , mild steel & alloy steel.	VICKERS HARDNESS - HV30	ASTM E92
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel , Alloy steel & Hardness Test block	Rockwell Hardness (HRA)	IS 1586 (Part-1)
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel , Alloy steel & Hardness Test block	Rockwell Hardness (HRBW)	ASTM E18
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel , Alloy steel & Hardness Test block	Rockwell Hardness (HRBW)	IS 1586 (Part -1)
221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel , Alloy steel & Hardness Test block	Rockwell Hardness (HRC)	ASTM E18
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel , Alloy steel & Hardness Test block	Rockwell Hardness (HRC)	IS 1586 (Part -1)
223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel ,Alloy steel & Hardness Test block	Rockwell Hardness (HRA)	ASTM E18
224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel, Alloy steel & Hardness Test Block	Brinell Hardness (HBW 10/3000)	ASTM E10
225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel, Alloy steel & Hardness Test Block	Brinell Hardness (HBW 10/3000)	IS 1500(Part -1)

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226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel, Alloy steel & Hardness Test Block	Brinell Hardness (HBW 2.5/187.5)	IS 1500(Part -1)
227	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel, Alloy steel & Hardness Test Block	Brinell Hardness (HBW 5/750)	ASTM E10
228	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel, Alloy steel & Hardness Test Block	Brinell Hardness (HBW 5/750)	IS 1500(Part -1)
229	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Cast Iron, Stainless steels, Tool Steel , Mild steel, Alloy steel & Hardness Test Block.	Brinell Hardness (HBW 2.5/187.5)	ASTM E10
230	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain Carbon Steel, Stainless Steel, Cast Iron, Tool Steel, Mild Steel & Alloy Steel	Rockwell Hardness (HRA)	ISO 6508-1
231	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain Carbon Steel, Stainless Steel, Cast Iron, Tool Steel, Mild Steel & Alloy Steel	Rockwell Hardness Test (HRC)	ISO 6508-1
232	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain Carbon Steel, Stainless Steel, Tool Steel, Cast Iron, Mild Steel & Alloy Steel	Brinell Hardness (HBW 2.5/187.5)	ISO 6506-1
233	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain Carbon Steel, Stainless Steel, Tool Steel, Cast Iron, Mild Steel & Alloy Steel	Brinell Hardness (HBW 10/3000)	ISO 6506-1
234	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain Carbon Steel, Stainless Steel, Tool Steel, Cast Iron, Mild Steel & Alloy Steel	Brinell Hardness (HBW 5/750)	ISO 6506-1

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235	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain Carbon Steel, Stainless Steel, Tool Steel, Cast Iron, Mild Steel & Alloy Steel	Vickers Hardness- HV10	ISO 6507-1
236	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain Carbon Steel, Stainless Steel, Tool Steel, Cast Iron, Mild Steel & Alloy Steel	Vickers Hardness- HV30	ISO 6507-1
237	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain Carbon Steel, Stainless Steel, Tool Steel, Cast Iron, Mild Steel & Alloy Steel	Vickers Hardness- HV5	ASTM E92
238	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain Carbon Steel, Stainless Steel, Tool Steel, Cast Iron, Mild Steel & Alloy Steel	Vickers Hardness- HV5	IS 1501(Part-1)
239	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain Carbon Steel, Stainless Steel, Tool Steel, Cast Iron, Mild Steel & Alloy Steel	Vickers Hardness- HV5	ISO 6507-1
240	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Stainless steels, Tool Steel , Mild steel & Alloy steel	Bend Test	ASTM A370
241	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Stainless steels, Tool Steel , Mild steel & Alloy steel	Bend Test	IS 1599
242	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plain carbon steel, Stainless steels, Tool Steel ,Mild steel & Alloy steel	Bend Test	ISO 7438
243	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel & Related Alloys	Brinell Hardness (HBW 10/3000)	ASTM A370

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244	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel & Related Alloys	Brinell Hardness (HBW 2.5/187.5)	ASTM A370
245	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel & Related Alloys	Brinell Hardness (HBW 5/750)	ASTM A370
246	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys	Bend Test	ASTM E290
247	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys	Charpy Impact Test (Room temperature to (-)120 Deg C & at (-) 196 Deg C)	ASTM A370
248	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys	Flattening Test	IS 2328
249	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys	Rockwell Hardness (HRBW)	ASTM A370
250	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys	Rockwell Hardness (HRC)	ASTM A370
251	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys - Tubular Products	Flaring Test	ASTM A370
252	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys - Tube	Drift Expanding Test	IS 2335

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253	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys- Tube	Drift Expanding Test	EN ISO 8493
254	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys- Tube	Flattening Test	ISO 8492
255	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel and Related Alloys- Tubular products	Flattening Test	ASTM A370
256	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium Base Alloys, Nickel Base Alloys	Rockwell Hardness (HRBW)	ASTM E18
257	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium Base Alloys, Nickel Base Alloys	Rockwell Hardness (HRBW)	IS 1586 (Part -1)
258	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium Base Alloys, Nickel Base Alloys, Cobalt Base alloys	Rockwell Hardness (HRC)	ASTM E18
259	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium Base Alloys, Nickel Base Alloys, Cobalt Base Alloys	Rockwell Hardness (HRC)	IS 1586 (Part-1)
260	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys.	Brinell Hardness (HBW 2.5/187.5)	ASTM E10
261	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Titanium Base Alloys, Nickel Base Alloys, Zinc Base Alloys.	Brinell Hardness (HBW 5/750)	ASTM E10

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262	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material - Stainless Steel	Bend Test (Face Bend, Root Bend, Side Bend)	AWS D1.6/D1.6M
263	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material - Stainless Steel	Fillet Weld Break Test	AWS D1.6/D1.6M (Clause 6.10.3, 6.10.3.1)
264	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded material - Stainless Steel	Tensile Strength	AWS D1.6/D1.6M (Clause 6.9.3.3)
265	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material - Steel	Bend Test (Face Bend, Root Bend, Side Bend)	AWS D1.1/D1.1M, (Clause 6.10.3.1,6.10.3.3)
266	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material - Steel	Fillet Weld Break Test	AWS D1.1/D1.1M (Clause 6.23.4, 6.23.4.1)
267	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material - Steel	Tensile Strength	AWS D1.1/D1.1M, (Clause 6.10.3.4, 6.10.3.5 & 6.10.3.6)
268	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Material - Steels, Nickel and Nickel Alloys	Tensile Strength	ISO 15614-1
269	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Materials - Steel, Nickel and Nickel Alloys	Vickers Hardness - HV10	ISO 15614-1
270	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Materials - Steel, Nickel and Nickel Alloys	Charpy Impact Test(Room Temperature to (-)120Deg C & at (-)196Deg C)	ISO 15614-1

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271	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Materials - Steels, Nickel and Nickel Alloys	Bend Test (Face Bend, Root Bend, Side Bend)	ISO 15614-1
272	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum and Magnesium Alloy Products	% Elongation	ASTM B557M
273	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum and Magnesium Alloy Products	% Elongation	ASTM B557
274	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum and Magnesium Alloy Products	Tensile Strength	ASTM B557
275	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum and Magnesium Alloy Products	Tensile Strength	ASTM B557M
276	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum and Magnesium Alloy Products	Yield Strength	ASTM B557
277	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum and Magnesium Alloy Products	Yield Strength	ASTM B557M
278	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum and Magnesium Alloy Products	Yield Strength (0.2% offset)	ASTM B557
279	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum and Magnesium Alloy Products	Yield Strength (0.2% offset)	ASTM B557M

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280	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum and Magnesium Alloy Products	Yield Strength(1% Offset)	ASTM B557
281	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum and Magnesium Alloy Products	Yield Strength(1% offset)	ASTM B557M
282	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Copper-Copper Sulfate-16% Sulfuric Acid Test for Detecting Susceptibility to Intergranular Attack	ASTM A262 - Practice E
283	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Ferric Sulfate- Sulfuric Acid Test for Detecting Susceptibility to Intergranular Attack	ASTM A262- Practice B
284	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Nitric Acid Test for Detecting Susceptibility to Intergranular Attack	ASTM A262 - Practice C
285	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Oxalic Acid Etch Test for Classification of Etch Structures.	ASTM A262 - Practice A
286	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Microstructure - Graphite in Cast Iron (Nodular Cast Iron, Grey Cast Iron & Malleable Cast Iron)	IS 7754(Part -1)
287	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Microstructure of Cast Iron	ISO 945 -1
288	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Microstructure of Graphite in Cast Iron (Nodular Cast Iron, Grey Cast Iron & Malleable Cast Iron)	ASTM A247
289	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/Ferritic Stainless Steels	Microstructure	ASTM A923 Method A

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290	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/Ferritic Stainless Steels	Microstructure - Determining Volume Fraction by Systematic Manual Point Count	ASTM E562
291	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/Ferritic Stainless Steels	Microstructure Examination	ISO 17781
292	MECHANICAL-METALLOGRAPHY TEST	Duplex (Austenitic-Ferritic) Stainless Steel	Ferric Chloride Corrosion Test for Detecting Detrimental Intermetallic Phase	ASTM A923 (Test Method C)
293	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/Ferritic Stainless Steel	Ferrite Content Measurement	ISO 17781
294	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/Ferritic Stainless Steels	Ferric Chloride Corrosion Test	ISO 17781
295	MECHANICAL-METALLOGRAPHY TEST	Ferritic, Austenitic and Ferritic-Austenitic(Duplex) Stainless steels	Determination of Resistance to Intergranular Corrosion of Stainless steels	ISO 3651 (Part -2) Method A
296	MECHANICAL-METALLOGRAPHY TEST	Ferritic, Austenitic and Ferritic-Austenitic(Duplex) Stainless Steels	Intergranular Corrosion of Stainless Steel	ISO 3651-2 (Method - B& C)
297	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Welded Materials	Macroscopic Examination	ISO 17639
298	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Welded Materials	Macrostructure Examination	ASME SEC IX, QW-183 & QW-184
299	MECHANICAL-METALLOGRAPHY TEST	Plain carbon steel, Alloy Steel, stainless steels, Tool Steel	Microstructure Examination	ASM Hand Book Volume 9
300	MECHANICAL-METALLOGRAPHY TEST	Plain carbon steel, Low Alloy Steel, stainless steels, Tool Steel	Grain Size (by ASTM Chart Comparison Method)	IS 4748

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301	MECHANICAL-METALLOGRAPHY TEST	Plain carbon steel, Low alloy Steel, stainless steels, Tool Steel	Grain Size (by ASTM Comparison Method)	ASTM E112
302	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel & Duplex Stainless Steel	Ferric Chloride Pitting Test	ASTM G48- Method - A (Reapproved : 2020)
303	MECHANICAL-METALLOGRAPHY TEST	Steel	Decarburization Depth (Metallographic Method)	IS 6396
304	MECHANICAL-METALLOGRAPHY TEST	Steel	Decarburization Depth (Metallographic Method)	ISO 3887
305	MECHANICAL-METALLOGRAPHY TEST	Steel	Decarburization Depth (Microscopical Method)	ASTM E1077
306	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Rating	ASTM E45
307	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Rating	IS 4163
308	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Rating	ISO 4967
309	MECHANICAL-METALLOGRAPHY TEST	Steel Products(Bars, Billets, Blooms and Forgings)	Macrostructure / visual examination	ASTM E381
310	MECHANICAL-METALLOGRAPHY TEST	Welded Material - Steel	Macrostructure	AWS D1.1/D1.1M (Clause 6.10.4)
311	MECHANICAL-METALLOGRAPHY TEST	Welded Material- Stainless Steel	Macrostructure	AWS D1.6/D1.6M (Clause 6.9.3.4)
312	MECHANICAL-METALLOGRAPHY TEST	Welded Materials	Microscopic Examination	ISO 17639

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313	MECHANICAL-METALLOGRAPHY TEST	Welded Materials	Microstructure Examination	ASM Hand Book Volume 9: 2004
314	MECHANICAL-METALLOGRAPHY TEST	Wrought Steel Products(Bar, Billet, Blooms, Sheets, Plates and Forgings)	Macrostructure	IS 11371
315	MECHANICAL-METALLOGRAPHY TEST	Wrought, Nickel-Rich, Chromium - Bearing Alloys	Detecting Susceptibility to Intergranular Corrosion-Ferric Sulfate - Sulfuric Acid Test	ASTM G28 (Method A)