National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PEEKAY STEEL CASTINGS (P) LTD - LABORATORY, NALLALAM, KOZHIKODE, KERALA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 24/07/2021 to 23/07/2023 **Last Amended on** 23/03/2023

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 Facility				
1	CHEMICAL- METALS & ALLOYS	Alloy Steel (For castings / engineering components and their weldments)	Presence and the "%" of elements Molybdenum	ASTM E1476
2	CHEMICAL- METALS & ALLOYS	Alloy Steel (For castings / engineering components and their weldments)	Presence and the "%" of elements Niobium	ASTM E1476
3	CHEMICAL- METALS & ALLOYS	Alloy Steel (For castings / engineering components and their weldments)	Presence and the "%" of elements Chromium	ASTM E1476
4	CHEMICAL- METALS & ALLOYS	Alloy Steel (For castings / engineering components and their weldments)	Presence and the "%" of elements Copper	ASTM E1476
5	CHEMICAL- METALS & ALLOYS	Alloy Steel (For castings / engineering components and their weldments)	Presence and the "%" of elements Iron	ASTM E1476
6	CHEMICAL- METALS & ALLOYS	Alloy Steel (For castings / engineering components and their weldments)	Presence and the "%" of elements Manganese	ASTM E1476
7	CHEMICAL- METALS & ALLOYS	Alloy Steel (For castings / engineering components and their weldments)	Presence and the "%" of elements Nickel	ASTM E 1476
8	CHEMICAL- METALS & ALLOYS	Alloy Steel (For castings / engineering components and their weldments)	Presence and the "%" of elements Titanium	ASTM E1476
9	CHEMICAL- METALS & ALLOYS	Alloy Steel (For castings / engineering components and their weldments)	Presence and the "%" of elements Tungsten	ASTM E1476
10	CHEMICAL- METALS & ALLOYS	Alloy Steel (For castings / engineering components and their weldments)	Presence and the "%" of elements Vanadium	ASTM E1476
11	CHEMICAL- METALS & ALLOYS	Alloy Steel (For castings / engineering components and their weldments)	To presence and the "%" of elements Aluminium	ASTM E1476
12	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Carbon	ASTM E1086
13	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Carbon	IS 9879:1998
14	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Chromium	ASTM E 1086
15	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Chromium	IS 9879
16	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Chromium	JIS G 1253
17	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Copper	ASTM E 1086
18	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Copper	IS 9879

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19	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Copper	JIS G 1253
20	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Manganese	ASTM E 1086
21	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Manganese	IS 9879 :1998
22	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Molybdenum	ASTM E 1086
23	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Molybdenum	IS 9879
24	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Molybdenum	JIS G 1253
25	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Nickel	ASTM E 1086
26	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Nickel	JIS G 1253
27	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Niobium	JIS G 1253
28	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Nitrogen	JIS G 1253
29	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Phosphorous	ASTM E 1086
30	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Phosphorous	IS 9879
31	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Silicon	ASTM E 1086
32	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Silicon	IS 9879
33	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Sulphur	ASTM E 1086
34	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Sulphur	IS 9879
35	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Titanium	JIS G 1253
36	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Vanadium	JIS G 1253
37	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Zirconium	JIS G 1253

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38	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Aluminium	JIS1253
39	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Hydrogen	ASTM E 1019
40	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Nickel	IS 9879
41	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Nitrogen	ASTM E 1019
42	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Nitrogen	IS 228 Part.23:
43	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Oxygen	ASTME1019
44	CHEMICAL- METALS & ALLOYS	Austenitic, Super Austenitic Duplex and Super Duplex stainless steel castings	Tungsten	JIS G1253
45	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Aluminium	ASTM E415
46	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Aluminium	IS 8811
47	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Arsenic	ASTM E 415
48	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Arsenic	IS 8811
49	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Boron	ASTM E 415
50	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Calcium	JIS G 1253
51	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Carbon	ASTM E415
52	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Carbon	IS 8811
53	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Chromium	ASTM E 415
54	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Chromium	IS 8811
55	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Cobalt	ASTM E 415
56	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Cobalt	IS 8811

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57	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Cobalt	JIS 1253
58	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Copper	ASTM E 415
59	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Copper	IS 8811
60	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Hydrogen	ASTM E1019
61	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Manganese	ASTM E 415
62	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Manganese	IS 8811
63	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Molybdenum	ASTM E 415
64	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Molybdenum	IS 8811
65	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Nickel	ASTM E 415
66	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Nickel	IS 8811
67	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Niobium	ASTM E 415
68	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Niobium	IS 8811
69	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Nitrogen	ASTM E 415
70	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Nitrogen	ASTM E1019
71	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Oxygen	ASTME1019
72	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Phosphorous	ASTM E 415
73	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Phosphorous	IS 8811
74	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Silicon	ASTM E415
75	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Silicon	IS 8811:1998

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76	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Sulphur	ASTM E 415
77	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Sulphur	IS 8811
78	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Tin	ASTM E 415
79	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Tin	IS 8811
80	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Tungsten	JIS G 1253
81	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Vanadium	ASTM E 415
82	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Vanadium	IS 8811
83	CHEMICAL- METALS & ALLOYS	Carbon and Alloy steel castings	Zirconium	JIS G 1253
84	CHEMICAL- METALS & ALLOYS	Nickel & its alloys (For castings / engineering components and their weldments)	Presence and the "%" of elements Aluminium	ASTM E1476
85	CHEMICAL- METALS & ALLOYS	Nickel & its alloys (For castings / engineering components and their weldments)	Presence and the "%" of elements Chromium	ASTM E 1476
86	CHEMICAL- METALS & ALLOYS	Nickel & its alloys (For castings / engineering components and their weldments)	Presence and the "%" of elements Copper	ASTM E 1476
87	CHEMICAL- METALS & ALLOYS	Nickel & its alloys (For castings / engineering components and their weldments)	Presence and the "%" of elements Iron	ASTM E 1476
88	CHEMICAL- METALS & ALLOYS	Nickel & its alloys (For castings / engineering components and their weldments)	Presence and the "%" of elements Manganese	ASTM E 1476
89	CHEMICAL- METALS & ALLOYS	Nickel & its alloys (For castings / engineering components and their weldments)	Presence and the "%" of elements Molybdenum	ASTM E 1476
90	CHEMICAL- METALS & ALLOYS	Nickel & its alloys (For castings / engineering components and their weldments)	Presence and the "%" of elements Nickel	ASTM E 1476
91	CHEMICAL- METALS & ALLOYS	Nickel & its alloys (For castings / engineering components and their weldments)	Presence and the "%" of elements Niobium	ASTM E 1476
92	CHEMICAL- METALS & ALLOYS	Nickel & its alloys (For castings / engineering components and their weldments)	Presence and the "%" of elements Titanium	ASTM E 1476
93	CHEMICAL- METALS & ALLOYS	Nickel & its alloys (For castings / engineering components and their weldments)	Presence and the "%" of elements Tungsten	ASTM E 1476
94	CHEMICAL- METALS & ALLOYS	Nickel & its alloys (For castings / engineering components and their weldments)	Presence and the "%" of elements Vanadium	ASTM E 1476

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95	CHEMICAL- METALS & ALLOYS	Nickel and its alloy castings	Aluminium	ASTM E 3047
96	CHEMICAL- METALS & ALLOYS	Nickel and its alloy castings	Carbon	ASTM E 3047
97	CHEMICAL- METALS & ALLOYS	Nickel and its alloy castings	Chromium	ASTM E 3047
98	CHEMICAL- METALS & ALLOYS	Nickel and its alloy castings	Cobalt	ASTM E3047
99	CHEMICAL- METALS & ALLOYS	Nickel and its alloy castings	Copper	ASTM E 3047
100	CHEMICAL- METALS & ALLOYS	Nickel and its alloy castings	Hydrogen	ASTM E1019
101	CHEMICAL- METALS & ALLOYS	Nickel and its alloy castings	Iron	ASTM E 3047
102	CHEMICAL- METALS & ALLOYS	Nickel and its alloy castings	Manganese	ASTM E 3047
103	CHEMICAL- METALS & ALLOYS	Nickel and its alloy castings	Molybdenum	ASTM E 3047
104	CHEMICAL- METALS & ALLOYS	Nickel and its alloy castings	Niobium	ASTM E 3047
105	CHEMICAL- METALS & ALLOYS	Nickel and its alloy castings	Nitrogen	ASTM E1019
106	CHEMICAL- METALS & ALLOYS	Nickel and its alloy castings	Oxygen	ASTM E1019
107	CHEMICAL- METALS & ALLOYS	Nickel and its alloy castings	Phosphorous	ASTM E 3047
108	CHEMICAL- METALS & ALLOYS	Nickel and its alloy castings	Silicon	ASTM E 3047
109	CHEMICAL- METALS & ALLOYS	Nickel and its alloy castings	Sulphur	ASTM E 3047
110	CHEMICAL- METALS & ALLOYS	Nickel and its alloy castings	Titanium	ASTM E 3047
111	CHEMICAL- METALS & ALLOYS	Nickel and its alloy castings	Vanadium	ASTM E 3047
112	CHEMICAL- METALS & ALLOYS	Stainless Steel (For castings / engineering components and their weldments)	Presence and the "%" of elements Chromium	ASTM E 1476
113	CHEMICAL- METALS & ALLOYS	Stainless Steel (For castings / engineering components and their weldments)	Presence and the "%" of elements Copper.	ASTM E 1476

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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
114	CHEMICAL- METALS & ALLOYS	Stainless Steel (For castings / engineering components and their weldments)	Presence and the "%" of elements Iron	ASTM E 1476
115	CHEMICAL- METALS & ALLOYS	Stainless Steel (For castings / engineering components and their weldments)	Presence and the "%" of elements Nickel.	ASTM E 1476
116	CHEMICAL- METALS & ALLOYS	Stainless Steel (For castings / engineering components and their weldments)	Presence and the "%" of elements Niobium	ASTM E 1476
117	CHEMICAL- METALS & ALLOYS	Stainless Steel (For castings / engineering components and their weldments)	Presence and the "%" of elements Titanium	ASTM E 1476
118	CHEMICAL- METALS & ALLOYS	Stainless Steel (For castings / engineering components and their weldments)	Presence and the "%" of elements Vanadium	ASTM E 1476
119	CHEMICAL- METALS & ALLOYS	Stainless Steel (For castings / engineering components and their weldments)	To presence and the "%" of elements Aluminium	ASTM E1476
120	CHEMICAL- METALS & ALLOYS	Stainless Steel (For castings / engineering components and their weldments)	To presence and the "%" of elements Manganese	ASTM E 1476
121	CHEMICAL- METALS & ALLOYS	Stainless Steel (For castings / engineering components and their weldments)	To presence and the "%" of elements Molybdenum	ASTM E1476
122	CHEMICAL- METALS & ALLOYS	Stainless Steel (For castings / engineering components and their weldments)	To presence and the "%" of elements Tungsten	ASTM E 1476
123	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon, Low alloy, High alloy steels and Austenitic, Super austenitic, Ferritic, Duplex stainless steels	Face/Root/Side bend	ASME SEC IX
124	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon, Low alloy, High alloy steels and Austenitic, Super austenitic, Ferritic, Duplex stainless steels	Face/Root/Side Bend	AWS D1.6/D1.6M
125	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon, Low alloy, High alloy steels and Austenitic, Super austenitic, Ferritic, Duplex stainless steels	Face/Root/Side bend	AWSD1.1/D1.1M
126	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Fe and Ni based steel product	Face/Root/Side bend	EN 15614-1
127	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Fe and Ni based steel product	Tensile Strength	ASME SEC IX
128	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Fe and Ni based steel product	Tensile Strength	EN 15614-1
129	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Alloys, Products	Shear area calculation	ASTM E23

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130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous alloy castings	% Elongation	ASTM A370
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous alloy castings	% Reduction in area	ASTM A370
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous alloy castings	Proof Strength (0.20%-1.0%)	ASTM A370
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous alloy castings	Tensile Strength	ASTM A370
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous alloy castings	Yield Strength	ASTM A 370
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys and products	% Elongation	ISO6892-1
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys and products	% Reduction in area	ISO6892-1
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys and products	Proof Strength (0.20%-1.0%)	ISO6892 Part-1
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous alloys and products	Tensile strength	ISO 6892-1
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	% Elongation	ASTM E8/E8M
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	% Reduction in area	ASTM E8/E8M
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Bend Test	ASTM A 370
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Bend Test	IS 1599 / ASTM E 290
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Brinnel Hardness Test	ASTM A 370

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144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Brinnel Hardness Test	ASTME10
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Brinnel Hardness Test	ISO 6506-1
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Impact Test Charpy "V" Notch	ASTM A 370 /ASME SA370
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Impact Test Charpy "V" Notch	ASTM E23
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Impact Test Charpy "V" Notch	ISO 148-1
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Lateral expansion	ASTM A 370 / ASME SA 370
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Lateral expansion	ASTM E 23
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Lateral Expansion	ISO 148-1
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Portable Brinel Hardness Test	ASTM E 110
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Proof strength (0.20 %-1.0%)	ASTM E8/E8M
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Shear area calculation	ASTM A370 / ASME SA 370
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Shear value calculation	ISO 148
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Tensile strength	ASTM E 8
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Vickers Hardness Test	ASTM A370

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158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Vickers Hardness Test	ISO 6507-1
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Vickers hardness test (HV10)	ASTM E 92
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Yield Strength	ASTM E8/E8M
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous alloys and Products	Yield Strength	ISO 6892 Part.1
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and nonferrous alloys and products	% Elongation	IS 1608 part 1
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and nonferrous alloys and products	% Reduction in area	IS 1608 part 1
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and nonferrous alloys and products	Proof Strength (0.20%-1.0%)	IS 1608 part 1
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and nonferrous alloys and products	Tensile Strength	IS 1608 part 1
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel and it's alloy casting	% Elongation	ASTM E8/E8M
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel and it's alloy casting	% Elongation	ISO 6892 Part.1
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel and it's alloy casting	Bend test	IS 1599
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel and it's alloy castings	Brinnel Hardness test	ISO6506-1
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel and it's alloy castings	Impact test charpy "V" notch	ASTM E 23
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel and it's alloy castings	Impact test Charpy "V" notch	ISO 148-1

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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
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel and it's alloy castings	Proof strength (0.20% and 1.00%)	ASTM E8/E8M
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel and it's alloy castings	Proof stress (0.20% and 1.00%)	ISO 6892 Part.1
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel and it's alloy castings	Tensile strength	ASTM E8/E8M
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel and it's alloy castings	Tensile strength	ISO 6892 Part.1
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel and it's alloy castings	Vicker Hardness test	ISO 6507-1
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel and it's alloy castings	Vickers Hardness test	ASTM E92
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel and it's alloys	Brinnel Hardness test	ASTM E10
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nickel and its alloy castings	Bend test	ASTM A 370
180	MECHANICAL-METALLOGRAPHY TEST	Austenitic stainless steels	Inter Granular Corrosion - Practice A	ASTM A 262
181	MECHANICAL-METALLOGRAPHY TEST	Austenitic, Ferritic, Super austenitic, Duplex and Super Duplex stainless steels	Inter Granular Corrosion - Method A	ISO 3651-2
182	MECHANICAL-METALLOGRAPHY TEST	Austenitic, Ferritic, Super austenitic, Duplex and Super Duplex stainless steels	Inter Granular Corrosion - Method B	ISO 3651-2
183	MECHANICAL-METALLOGRAPHY TEST	Austenitic, Ferritic, Super austenitic, Duplex and Super Duplex stainless steels	Inter Granular Corrosion - Method C	ISO 3651-2
184	MECHANICAL-METALLOGRAPHY TEST	Austenitic, Super austenitic, Duplex and Super Duplex stainless steel	Pitting Corrosion Resistance - Method A	BS EN ISO 17781:
185	MECHANICAL-METALLOGRAPHY TEST	Austenitic, Super austenitic, Duplex and Super Duplex stainless steels	Crevice Corrosion Resistance - Method B	ASTM G 48
186	MECHANICAL-METALLOGRAPHY TEST	Austenitic, Super austenitic, Duplex and Super Duplex stainless steels	Intergranular corrosion test - Practice B	ASTM A 262
187	MECHANICAL-METALLOGRAPHY TEST	Austenitic, Super austenitic, Duplex and Super Duplex stainless steels	Intergranular corrosion test - Practice C	ASTM A 262

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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
188	MECHANICAL-METALLOGRAPHY TEST	Austenitic, Super austenitic, Duplex and Super Duplex stainless steels	Intergranular corrosion test - Practice E	ASTM A 262
189	MECHANICAL-METALLOGRAPHY TEST	Austenitic, Super austenitic, Duplex and Super Duplex stainless steels	Pitting Corrosion Resistance - Method A	ASTM G 48
190	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/Ferritic Stainless Steel	Estimation of Ferrite	ASTM A 800
191	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/Ferritic Stainless Steel castings	Detecting Detrimental Intermetallic Phase in Duplex Austenitic/Ferritic Stainless Steels	ASTM A 923
192	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/Ferritic Stainless Steel castings	Detecting Detrimental Intermetallic Phase in Duplex Austenitic/Ferritic Stainless Steels	ISO 17781
193	MECHANICAL-METALLOGRAPHY TEST	Fe and Ni based steel product	Macro examination	ASME Sec IX
194	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous alloys and Products	Determining Volume Fraction by Systematic Manual Point Count	ASTM E 562
195	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous alloys and Products	General Microstructure	ASM Hand book volume.9
196	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous alloys and Products	Grain size calculation	ASTM E 112
197	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous alloys and Products	Grain size calculation by automatic image evaluation	ASTM E1382
198	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous alloys and Products	Inclusion analysis	ASTM E 45
199	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous alloys and Products	In-situ Micro Structural Characterization	ASM Metal Hand book Volume.9
200	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous alloys and Products	Macro examination	ASTM E381
201	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous alloys and Products	Macro examination	ASTM E 340
202	MECHANICAL-METALLOGRAPHY TEST	Intergranular Corrosion in Wrought, Nickel-Rich, Chromium-Bearing Alloys	Inter Granular Corrosion - Method A	ASTM G 28
203	MECHANICAL-METALLOGRAPHY TEST	Nickel and it's alloy castings	Determining Volume Fraction by Systematic Manual Point Count	ASTM E 562
204	MECHANICAL-METALLOGRAPHY TEST	Nickel and it's alloy castings	General microstructure	ASM Hand book volume.9

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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
205	MECHANICAL-METALLOGRAPHY TEST	Nickel and it's alloy castings	Grain size calculation	ASTM E112
206	MECHANICAL-METALLOGRAPHY TEST	Nickel and it's alloy castings	Grain size calculation by automatic image evaluation	ASTM E 1382
207	MECHANICAL-METALLOGRAPHY TEST	Nickel and it's alloy castings	Inclusion analysis	ASTM E45
208	MECHANICAL-METALLOGRAPHY TEST	Nickel and it's alloy castings	In-situ Micro Structural Characterization	ASM Metal Hand book Volume.9:

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Site Facility				
1	MECHANICAL-METALLOGRAPHY TEST	Duplex Austenitic/Ferritic Stainless Steel	Estimation of Ferrite	ASTM A 800
2	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-ferrous alloys and Products	In-situ Micro Structural Characterization	ASM Metal Hand book Volume.9