



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

KVS METALLURGICAL LABS PRIVATE LIMITED, PLOT NO.47, SHOP NO.4, TIE BALANAGAR,
HYDERABAD, MEDCHAL MALKAJGIRI, TELANGANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

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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	CHEMICAL- CORROSION TESTS	Galvanized Products / Panels / Raw Materials	Corrosion Resistance testing	ASTM B 117
2	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Chromium(Cr)	ASTM E1251
3	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Copper(Cu)	ASTM E1251
4	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Iron (Fe)	ASTM E1251
5	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Lead(Pb)	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Magnesium (Mg)	ASTM E1251
7	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Manganese(Mn)	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Nickel(Ni)	ASTM E1251
9	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Silicon(Si)	ASTM E1251
10	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Tin(Sn)	ASTM E1251
11	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Titanium(Ti)	ASTM E1251
12	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Vanadium(V)	ASTM E1251
13	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Zinc(Zn)	ASTM E1251
14	CHEMICAL- METALS & ALLOYS	Copper Alloys	Aluminium(Al)	BS EN 15079
15	CHEMICAL- METALS & ALLOYS	Copper Alloys	Antimony(Sb)	BS EN 15079
16	CHEMICAL- METALS & ALLOYS	Copper Alloys	Arsenic(As)	BS EN 15079



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17	CHEMICAL- METALS & ALLOYS	Copper Alloys	Bismuth(Bi)	BS EN 15079
18	CHEMICAL- METALS & ALLOYS	Copper Alloys	Cobalt(Co)	BS EN 15079
19	CHEMICAL- METALS & ALLOYS	Copper Alloys	Iron(Fe)	BS EN 15079
20	CHEMICAL- METALS & ALLOYS	Copper Alloys	Lead(Pb)	BS EN 15079
21	CHEMICAL- METALS & ALLOYS	Copper Alloys	Nickel(Ni)	BS EN 15079
22	CHEMICAL- METALS & ALLOYS	Copper Alloys	Phosphorus(P)	BS EN 15079
23	CHEMICAL- METALS & ALLOYS	Copper Alloys	Silicon(Si)	BS EN 15079
24	CHEMICAL- METALS & ALLOYS	Copper Alloys	Silver(Ag)	BS EN 15079
25	CHEMICAL- METALS & ALLOYS	Copper Alloys	Sulphur(S)	BS EN 15079
26	CHEMICAL- METALS & ALLOYS	Copper Alloys	Tin(Sn)	BS EN 15079
27	CHEMICAL- METALS & ALLOYS	Copper Alloys	Zinc(Zn)	BS EN 15079
28	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Aluminium (Al)	ASTM E415
29	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Aluminium (Al)	IS8811
30	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Carbon(C.)	ASTM E415
31	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Carbon(C.)	IS8811
32	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Chromium(Cr)	ASTM E415



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33	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Chromium(Cr)	IS8811
34	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Cobalt(Co)	ASTM E415
35	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Cobalt(Co)	IS8811
36	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Copper(Cu)	ASTM E415
37	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Copper(Cu)	IS8811
38	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Manganese(Mn)	ASTM E415
39	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Manganese(Mn)	IS8811
40	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Molybdenum(Mo)	ASTM E415
41	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Molybdenum(Mo)	IS8811
42	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Nickel(Ni)	ASTM E415
43	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Nickel(Ni)	IS8811
44	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Phosphorus(P)	ASTM E415
45	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Phosphorus(P)	IS8811
46	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Silicon(Si)	ASTM E415
47	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Silicon(Si)	IS8811
48	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Sulphur(S)	ASTM E415



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49	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Sulphur(S)	IS8811
50	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Vanadium(V)	ASTM E415
51	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Vanadium(V)	IS8811
52	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Aluminium Zinc Coating (single Spot)	IS 15961
53	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Aluminium Zinc Coating (Triple Spot)	IS 15961
54	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon(C.)	ASTM E1086
55	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon(C.)	IS9879
56	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium(Cr)	ASTM E1086
57	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium(Cr)	IS9879
58	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper(Cu)	ASTM E1086
59	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper(Cu)	IS9879
60	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese(Mn)	ASTM E1086
61	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese(Mn)	IS9879
62	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum(Mo)	ASTM E1086
63	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum(Mo)	IS9879
64	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel(Ni)	ASTM E1086



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65	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel(Ni)	IS9879
66	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus(P)	ASTM E1086
67	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus(P)	IS9879
68	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon(Si)	ASTM E1086
69	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon(Si)	IS9879
70	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur(S)	ASTM E1086
71	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur(S)	IS9879
72	CHEMICAL- METALS & ALLOYS	Zinc Coated iron and steel articles	Mass of Zinc Coating (Triple Spot)	IS 6745
73	CHEMICAL- METALS & ALLOYS	Zinc Coated iron and steel articles	Mass of Zinc Coating(Single Spot)	IS 6745
74	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Alloys	% of Elongation	ASTM B 557
75	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Alloys	0.2% Offset	ASTM B 557
76	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Alloys	Tensile Test	ASTM B 557
77	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Material	Fracture Test	AWS D 1.1 Cl. No. 6.23.4



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78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Material	Transverse Tensile Test	IS 3600-3
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	% Elongation	ASTME8/E8M
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	% of Elongation	ISO 6892 Part-1
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	% Reduction of Area	ASTM E8/E8M
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	0.2% Offset by extensometer (M/c calibrated as per ASTM E4)	ASTM E8/E8M
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	0.2% Proof Strength	IS 1608 (Part-1)
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	0.2% Proof Stress	ISO 6892 Part-1
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Bend Test (Plate, Bars, Strips, Sections & Sheets)	ASTM E290
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Bend Test (Plate, Bars, Strips, Sections & Sheets)	IS 1599



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87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Brinell Hardness (Load 10mm/3000 Kg)	ASTM E 10
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Brinell Hardness (Load 10mm/3000 Kg)	IS 1500 (Part 1)
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Brinell Hardness Test (Load 5mm/750Kg)	ASTM E 10
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Brinell Hardness Test (Load 5mm/750Kg)	IS 1500 (Part 1)
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Charpy impact Test (-70 °C to Room Temp)	IS 1757(Part- 1)
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Charpy Test (-70 °C to Room Temp)	EN ISO 148-1
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Elongation	IS 1608 (Part-1)
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Fracture test	ISO 9017
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Reduction of Area	IS 1608(Part 1)



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96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Reduction of Area	ISO 6892 Part-1
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Rockwell hardness in 'C' Scale	IS 1586 (Part - 1)
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Rockwell Hardness Test in 'B' Scale	IS 1586 (Part1)
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Tensile Test	ASTM E8/E8
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Tensile Test	IS 1608 (Part-1)
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Tensile Test	ISO 6892 Part-1
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Vickers Hardness (Load 10kg)	ASTM E92
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Vickers Hardness (Load 5Kg)	ASTM E92
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Vickers Hardness (Load 5Kg)	IS 1501:Part 1



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105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Vickers Hardness(Load 10kg)	IS 1501 part 1
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials & Alloys	Face Bend, Root Bend	IS 3600-5
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials & Alloys	Face Bend, Root Bend, Side Bend	API 1104 Cl. No. 5.6.4 & 5.6.5
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials & Alloys	Nick Break Test	API 1104 Cl. No. 5.6.3
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials & Alloys	Side Bend	IS 3600-6
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials & Alloys	Transverse Tensile Test	API 1104 Cl. No. 5.6.2
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials & Alloys	Wedge Load	IS 1367-3
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials & Alloys	Wedge Load	ISO 898-1
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys& Products	Nick Break Test & Fillet Weld Fracture	IS 3600-8



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114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion weld joints	All weld metal tensile	IS 2825
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion weld joints	Fracture test	ASME Sec. IX Cl. No. QW-182
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Weld Joints	Root Bend Test, Face Bend Test & Side Bend Test	AWS D1.1; D1.1M; Cl. No. 6.10.3.1
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion weld joints	Side Bend	ASTM E 190
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion weld joints	Tensile Strength (Transverse)	ASME Sec. IX Cl. No. QW-150
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion weld joints	Tensile Strength (Transverse)	AWS D1.1; D1.1M; Cl. No. 6.10.3.4
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Weld Joints	Transverse Root Bend Test, Transvers Face Bend Test & Transvers Side Bend Test	ASME Sec. IX Cl. No. QW-161.3, QW-161.2 & QW-161.1
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Proof Load Bolts	IS 1367 (Part 3)
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Proof Load Bolts	ISO 898-1



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123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Proof Load Nuts	IS 1367 (Part 6)
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Proof Load Nuts	ISO 898-2
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Steel products	0.2% Offset	ASTM A 370
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Steel products	Elongation	ASTM A 370
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Steel products	Reduction of Area	ASTM A 370
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Steel products	Tensile Test	ASTM A 370
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Steel products	Vickers Hardness Test (30 Kg)	IS 1501 part 1
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Steel products	Vickers Hardness Test (30Kg)	ASTM E92
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Weld joints	Hardness test on arc welded joints (Vickers@ Load 10Kg)	ISO 9015-1



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132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Weld joints	Hardness test on arc welded joints (Vickers@ Load 5Kg)	ISO 9015-1
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Weld joints	Root Bend Test, Face Bend Test & Side Bend Test	ISO 5173
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Weld joints	Tensile Strength (Transverse)	ISO 4136
135	MECHANICAL-METALLOGRAPHY TEST	Carbon and alloy steels	Methods for measuring case depth of steel (Macrostructure and Microscopic methods)	IS 6416
136	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Material	Macro Test	AWS D1.1 Cl. No. 6.10.4 & Cl. No. 6.10.4.1; AWS D1.1M; Cl. No. 6.23.2.1 & Cl. No. 6.23.2.2; Cl. No. 6.23.2; Cl. No. 10.21.1; Cl. No. 10.21.1.1
137	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials & Alloys	Macro Examination	API 1104 Cl. No. 10.3.6.4.2 & 10.3.6.4.3
138	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials & Alloys	Micro & Macro Examination	IS 3600-9
139	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals	Estimating the Depth of Decarburization of Steel Specimens	ASTM E1077
140	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals	Estimating the Depth of Decarburization of Steel Specimens	IS 6396
141	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals	Evaluating the Microstructure of Graphite in Iron Castings	ASTM A247



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142	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals and alloys	Micrographic determination of the apparent grain size	IS 4748
143	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals and alloys	Standard test methods for determining the inclusion content of steel	ASTM E45 (Method A & D)
144	MECHANICAL-METALLOGRAPHY TEST	Ferrous, Non Ferrous metals and alloys	Macroetch Testing of Consumable Electrode Remelted Steel Bars and Billets	ASTM A604
145	MECHANICAL-METALLOGRAPHY TEST	Ferrous, Non Ferrous metals and alloys	Microstructure examination.	ASM Metals Hand Book Vol 9
146	MECHANICAL-METALLOGRAPHY TEST	Ferrous, Non Ferrous metals and alloys	Standard practice for Macro etching of metals and alloys	ASTM E340
147	MECHANICAL-METALLOGRAPHY TEST	Ferrous, Non Ferrous metals and alloys	Standard test methods for Determining average grain size	ASTM E112
148	MECHANICAL-METALLOGRAPHY TEST	Fusion weld joints in metals	Macro examination	ASME Sec.IX
149	MECHANICAL-METALLOGRAPHY TEST	Fusion weld joints in metals	Macro examination	ISO 17639
150	MECHANICAL-METALLOGRAPHY TEST	Metallic Coatings	Coating Thickness By Microscopic Method	ASTM B487
151	MECHANICAL-METALLOGRAPHY TEST	Steels	Non Metallic Inclusion Rating (NMIR)	IS 4163
152	NON-DESTRUCTIVE-METAL & ALLOYS	Aerospace Materials (Over 12.7 mm Thickness)	Ultrasonic Test	SAE AMS 2630 B: 1995 ; RA:
153	NON-DESTRUCTIVE-METAL & ALLOYS	Aerospace Materials (Below 12.7mm Thickness)	Ultrasonic Test	SAE AMS 2632



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

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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
154	NON-DESTRUCTIVE-METAL & ALLOYS	Aerospace Materials (Finished and Semi-finished)	Magnetic Particle Testing	ASTM E 1444/E1444M
155	NON-DESTRUCTIVE-METAL & ALLOYS	Aluminium Wrought Products (rounds & plates 8 to 300 mm)	Ultrasonic Test	ASTM B594: 2019
156	NON-DESTRUCTIVE-METAL & ALLOYS	Carbon & Alloy Steel Plates (6 to 300 mm)	Ultrasonic Test	IS 4225
157	NON-DESTRUCTIVE-METAL & ALLOYS	Casting, Welding & Forging	Visible & Fluorescent Method	ISO 3452-Part1
158	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Forged steels (Wet & Dry)	IS 7743
159	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Welds (Wet & Dry)	IS 5334
160	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Welds (Wet)	EN ISO 17638
161	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Welds Casting & Forgings (Wet & Dry)	ASME Sec V Article 7
162	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Wet & Dry	IS 3703
163	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic steel welds	Magnetic Particle Testing	ISO 23278
164	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic steel welds	Penetrant Testing Facility	ISO 23277
165	NON-DESTRUCTIVE-METAL & ALLOYS	Ferrous & Non-Ferrous materials (Weld Joints 6 to 100 mm), (Forgings 10 to 300 mm), (Casting 12 to 300 mm) & (Plates 10 to 300 mm)	Ultrasonic Test	ASME Sec-V Article 4, 5 & 23



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166	NON-DESTRUCTIVE-METAL & ALLOYS	Ferrous & Non-Ferrous Plates,Welds, Pipes, Forgings, Castings (10 to 70 mm Gamma rays) & (2 to 30 mm X-rays)	Radiography Testing / Radiographic Examination	ASME Sec-V Article 2 & 22
167	NON-DESTRUCTIVE-METAL & ALLOYS	fusion welded joints in metallic materials = 8mm Thk	Ultrasonic Test (UT)	ISO 17640
168	NON-DESTRUCTIVE-METAL & ALLOYS	Plate (Weld), Forging,Casting (Non porous materials)	Open to surface defects	ASTM E 165
169	NON-DESTRUCTIVE-METAL & ALLOYS	Plates (Weld), Forging,Casting (Non Porous materials)	Open to surface defects	IS 3658
170	NON-DESTRUCTIVE-METAL & ALLOYS	Plates(Weld), Forging,Casting (Non-Porous materials)	Open to surface defects	ASTM E 1417
171	NON-DESTRUCTIVE-METAL & ALLOYS	Steel Castings (12 to 300 mm)	Ultrasonic Test	IS 7666
172	NON-DESTRUCTIVE-METAL & ALLOYS	Structurul Weld Joints	Ultrasonic Test	AWS D 1.1 D1.1M



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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
Site Testing				
1	NON-DESTRUCTIVE-METAL & ALLOYS	Aerospace Materials (Over 12.7 mm Thickness)	Ultrasonic Test	SAE AMS 2630 B: 1995 ; RA:
2	NON-DESTRUCTIVE-METAL & ALLOYS	Aerospace Materials (Below 12.7mm Thickness)	Ultrasonic Test	SAE AMS 2632
3	NON-DESTRUCTIVE-METAL & ALLOYS	Aerospace Materials (Finished and Semi-finished)	Magnetic Particle Testing	ASTM E 1444/E1444M
4	NON-DESTRUCTIVE-METAL & ALLOYS	Aluminium Wrought Products (rounds & plates 8 to 300 mm)	Ultrasonic Test	ASTM B594: 2019
5	NON-DESTRUCTIVE-METAL & ALLOYS	Carbon & Alloy Steel Plates (6 to 300 mm)	Ultrasonic Test	IS 4225
6	NON-DESTRUCTIVE-METAL & ALLOYS	Casting, Welding & Forging	Visible & Fluorescent Method	ISO 3452-Part1
7	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Forged steels (Wet & Dry)	IS 7743
8	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Welds (Wet & Dry)	IS 5334
9	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Welds (Wet)	EN ISO 17638
10	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Welds Casting & Forgings (Wet & Dry)	ASME Sec V Article 7
11	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Wet & Dry	IS 3703
12	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic steel welds	Magnetic Particle Testing	ISO 23278



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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
13	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic steel welds	Penetrant Testing Facility	ISO 23277
14	NON-DESTRUCTIVE-METAL & ALLOYS	Ferrous & Non-Ferrous materials (Weld Joints 6 to 100 mm), (Forgings 10 to 300 mm), (Casting 12 to 300 mm) & (Plates 10 to 300 mm)	Ultrasonic Test	ASME Sec-V Article 4, 5 & 23
15	NON-DESTRUCTIVE-METAL & ALLOYS	Ferrous & Non-Ferrous Plates, Welds, Pipes, Forgings, Castings (10 to 70 mm Gamma rays) & (2 to 30 mm X-rays)	Radiography Testing / Radiographic Examination	ASME Sec-V Article 2 & 22
16	NON-DESTRUCTIVE-METAL & ALLOYS	fusion welded joints in metallic materials = 8mm Thk	Ultrasonic Test (UT)	ISO 17640
17	NON-DESTRUCTIVE-METAL & ALLOYS	Plate (Weld), Forging, Casting (Non porous materials)	Open to surface defects	ASTM E 165
18	NON-DESTRUCTIVE-METAL & ALLOYS	Plates (Weld), Forging, Casting (Non Porous materials)	Open to surface defects	IS 3658
19	NON-DESTRUCTIVE-METAL & ALLOYS	Plates(Weld), Forging, Casting (Non-Porous materials)	Open to surface defects	ASTM E 1417
20	NON-DESTRUCTIVE-METAL & ALLOYS	Steel Castings (12 to 300 mm)	Ultrasonic Test	IS 7666
21	NON-DESTRUCTIVE-METAL & ALLOYS	Structural Weld Joints	Ultrasonic Test	AWS D 1.1 D1.1M