



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name MALNAD ALLOY CASTINGS PVT LTD LABORATORY DIVISION, 36/A SHIMOGA BHADRAVATHI INDUSTRIAL AREA, BHADRAVATI, SHIMOGA, KARNATAKA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6985 Page No. : 1 / 10

Validity 03/06/2019 to 04/03/2020 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Aluminum	ASTM E 415: 2017	0.004 % to 0.050 %
2	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Aluminum	IS 8811: 1998	0.005 % to 0.050 %
3	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Carbon	ASTM E 415: 2017	0.050 % to 1.00 %
4	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Carbon	IS 8811: 1998	0.050 % to 1.00 %
5	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Chromium	IS 8811: 1998	0.10 % to 5.50 %
6	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Chromium	ASTM E 415: 2017	0.05 % to 5.50 %
7	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Copper	ASTM E 415: 2017	0.005 % to 0.40 %
8	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Copper	IS 8811: 1998	0.050 % to 0.40 %
9	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Manganese	IS 8811: 1998	0.100 % to 1.00 %
10	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Manganese	ASTM E 415: 2017	0.100 % to 1.00 %
11	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Molybdenum	ASTM E 415: 2017	0.005 % to 1.00 %
12	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Molybdenum	IS 8811: 1998	0.005 % to 1.00 %
13	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Nickel	IS 8811: 1998	0.015 % to 0.50 %



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14	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Nickel	ASTM E 415: 2017	0.015 % to 0.50 %
15	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Phosphorus	IS 8811: 1998	0.005 % to 0.070 %
16	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Phosphorus	ASTM E 415: 2017	0.005 % to 0.070 %
17	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Silicon	ASTM E 415: 2017	0.100 % to 1.00 %
18	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Silicon	IS 8811: 1998	0.100 % to 1.00 %
19	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Sulphur	IS 8811: 1998	0.005 % to 0.050 %
20	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Sulphur	ASTM E 415: 2017	0.005 % to 0.050 %
21	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Vanadium	ASTM E 415: 2017	0.005 % to 0.15 %
22	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel	Vanadium	IS 8811: 1998	0.005 % to 0.15 %
23	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Carbon	ASTM E 1086: 2014	0.005 % to 0.200 %
24	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Carbon	IS 9879: 1998	0.005 % to 0.200 %
25	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Chromium	ASTM E1086: 2014	7.50 % to 28.00 %



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26	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Chromium	IS 9879: 1998	7.50 % to 28.00 %
27	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Copper	ASTM E1086: 2014	0.025 % to 1.85 %
28	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Copper	IS 9879: 1998	0.025 % to 1.85 %
29	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Manganese	ASTM E1086: 2014	0.100 % to 1.50 %
30	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Manganese	IS 9879: 1998	0.100 % to 1.50 %
31	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Molybdenum	IS 9879: 1998	2.00 % to 6.50 %
32	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Molybdenum	ASTM E1086: 2014	2.00 % to 6.50 %
33	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Nickel	ASTM E1086: 2014	3.50 % to 20.00 %
34	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Nickel	IS 9879: 1998	3.50 % to 20.00 %
35	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Niobium	ASTM E1086: 2014	0.005 % to 1.00 %



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36	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Niobium	IS 9879: 1998	0.005 % to 1.00 %
37	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Nitrogen	IS 9879: 1998	0.005 % to 0.300 %
38	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Nitrogen	ASTM E1086: 2014	0.005 % to 0.300 %
39	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Phosphorus	ASTM E1086: 2014	0.005 % to 0.050 %
40	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Phosphorus	IS 9879: 1998	0.005 % to 0.050 %
41	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Silicon	ASTM E1086: 2014	0.100 % to 1.00 %
42	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Silicon	IS 9879: 1998	0.100 % to 1.00 %
43	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Sulphur	ASTM E1086: 2014	0.001 % to 0.040 %
44	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Sulphur	IS 9879: 1998	0.001 % to 0.040 %
45	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Titanium	ASTM E 1086: 2014	0.005 % to 1.0 %



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46	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Titanium	IS 9879: 1998	0.005 % to 1.00 %
47	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Tungsten	ASTM E1086: 2014	0.05 % to 1.00 %
48	CHEMICAL- METALS & ALLOYS	Ferrous ,Duplex, SuperDuplex ,StainlessSteel	Tungsten	IS 9879: 1998	0.05 % to 1.00 %
49	CHEMICAL- METALS & ALLOYS	Nickel & Nickel alloys	Carbon	ASTM E 3047: 2016	0.005 % to 0.100 %
50	CHEMICAL- METALS & ALLOYS	Nickel & Nickel alloys	Chromium	ASTM E 3047: 2016	17.00 % to 22.00 %
51	CHEMICAL- METALS & ALLOYS	Nickel & Nickel alloys	Copper	ASTM E 3047: 2016	25.00 % to 32.00 %
52	CHEMICAL- METALS & ALLOYS	Nickel & Nickel alloys	Iron	ASTM E 3047: 2016	0.20 % to 10.00 %
53	CHEMICAL- METALS & ALLOYS	Nickel & Nickel alloys	Manganese	ASTM E 3047: 2016	0.050 % to 1.00 %
54	CHEMICAL- METALS & ALLOYS	Nickel & Nickel alloys	Molybdenum	ASTM E 3047: 2016	2.50 % to 34.00 %
55	CHEMICAL- METALS & ALLOYS	Nickel & Nickel alloys	Niobium	ASTM E 3047: 2016	4.5 % to 5.5 %
56	CHEMICAL- METALS & ALLOYS	Nickel & Nickel alloys	Phosphorus	ASTM E 3047: 2016	0.001 % to 0.025 %
57	CHEMICAL- METALS & ALLOYS	Nickel & Nickel alloys	Silicon	ASTM E 3047: 2016	0.020 % to 4.50 %
58	CHEMICAL- METALS & ALLOYS	Nickel & Nickel alloys	Sulphur	ASTM E 3047: 2016	0.005 % to 0.050 %



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59	CHEMICAL- METALS & ALLOYS	Nickel & Nickel alloys	Tungsten	ASTM E 3047: 2016	4.00 % to 5.00 %
60	CHEMICAL- METALS & ALLOYS	Nickel & Nickel alloys	Vanadium	ASTM E 3047: 2016	0.010 % to 0.500 %
61	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	% Elongation	ASTM E8/8M: 2016	1 % to 80 %
62	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	% Elongation	IS 1608-Part1: 2018	1 % to 80 %
63	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	% Elongation	ISO 6892 PART1: 2016	1 % to 80 %
64	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	% Elongation	ASTM A 370: 2018	1 % to 80 %
65	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	% Reduction in Area	ASTM A370: 2018	1 % to 80 %
66	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	% Reduction in Area	ASTM E8/8M: 2016	1 % to 80 %



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67	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	% Reduction in Area	IS 1608-Part1: 2018	1 % to 80 %
68	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	% Reduction in Area	ISO-6892 PART 1: 2016	1 % to 80 %
69	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	0.1%,0.2% , 0.5% Proof Strength	ASTM A 370: 2018	100 Mpa to 1500 Mpa
70	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	0.1%,0.2% , 0.5% Proof Strength	ASTM E8/8M: 2016	100 Mpa to 1500 Mpa
71	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	0.1%,0.2% , 0.5% Proof Strength	IS 1608-Part1: 2018	100 Mpa to 1500 Mpa
72	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	0.1%,0.2% , 0.5% Proof Strength	ISO 6892 PART 1: 2016	100 Mpa to 1500 Mpa
73	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Brinell Hardness - HBW 10/3000	ASTM E10: 2018	120 HBW 10/3000 to 450 HBW 10/3000



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74	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Brinell Hardness - HBW 10/3000	IS 1500 PART 1: 2013	120 HBW 10/3000 to 450 HBW 10/3000
75	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Brinell Hardness - HBW 10/3000	ISO – 6506:1: 2014	120 HBW 10/3000 to 450 HBW 10/3000
76	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Impact Test (Charpy “V”)	ASTM E23: 2018	4 JOULES (AMBIENT TEMPERATURE TO MINUS 196°C) to 240 JOULES (AMBIENT TEMPERATURE TO MINUS 196°C)
77	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Tensile Test	ASTM A 370: 2018	100 Mpa to 1500 Mpa
78	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Tensile Test	ASTM E8/8M: 2016	100 Mpa to 1500 Mpa
79	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Tensile Test	ISO 6892 PART 1: 2016	100 Mpa to 1500 Mpa
80	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Yield Strength	ASTM A 370: 2018	100 Mpa to 1500 Mpa



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81	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Yield Strength	ASTM E 8/8M: 2016	100 Mpa to 1500 Mpa
82	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Yield Strength	IS 1608-Part1: 2018	100 Mpa to 1500 Mpa
83	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Yield Strength	ISO 6892PART1: 2016	100 Mpa to 1500 Mpa
84	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Bend Test	ASTM A 370: 2018	Qualitative(Mandrel Diameter(15MM; 25MM; 60MM))
85	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Tensile Test	IS1608-Part1: 2018	100 Mpa to 1500 Mpa
86	MECHANICAL- METALLOGRAPHY TEST	Duplex Stainless Steel	Inter granular- Corrosion Test - Method A	ASTM A923: 2014	Qualitative
87	MECHANICAL- METALLOGRAPHY TEST	Ferrous Metals & Alloys	Micro Structural Characterization	ASTM E 407-07: 2015	Qualitative(MAGNIFIC ATION 100X;200X; 400X;1000X)
88	MECHANICAL- METALLOGRAPHY TEST	Ferrous Metals & Alloys	Micro Structural Characterization	ASM Metals Hand Book Vol. 9: 2004	Qualitative(MAGNIFIC ATION 100X;200X; 400X;1000X)



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89	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals and Alloys	Micro Structural Characterization	ASTM E3: 2011	Qualitative(MAGNIFICATION 100X, 200X, 400X, 1000X,)
90	MECHANICAL-METALLOGRAPHY TEST	S G Iron Products	Micro Examination Nodules Type and Size, Distribution Characteristics	ASM Metals Hand Book Vol. 9: 2004	Qualitative(MAGNIFICATION 100x)
91	MECHANICAL-METALLOGRAPHY TEST	S G Iron Products	Micro Examination Nodules Type and Size, Distribution Characteristics	ASTM A247: 2017	Qualitative(MAGNIFICATION 100X)
92	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel , Duplex Stainless Steel (Wrought ,Cast)	Inter granular Corrosion Test Practice A	ASTM A 262: 2015	Qualitative(Characterization of micro examination)
93	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel , Duplex Stainless Steel (Wrought ,Cast)	Inter granular Corrosion Test Practice C	ASTM A 262: 2015	0.0001 mils/month to 4.0 mils/month
94	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel , Duplex Stainless Steel (Wrought ,Cast)	Inter granular Corrosion Test Practice B	ASTM A 262: 2015	1 mils/year to 100 mils/year
95	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel , Duplex Stainless Steel (Wrought ,Cast)	Inter granular Corrosion Test Practice E	ASTM A 262: 2015	Qualitative
96	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels,Duplex Stainless Steel	Pitting corrosion Test - Method A	ASTM G 48: 2011	0.1 g/m ² to 4.0 g/m ²