National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : METT-BIO METALLURGICAL TESTING & SERVICES, SHED NO.5, ABHINAV ARCADE, VIRAT NAGAR, SP RING ROAD CROSS, ODHAV, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 08/11/2022 to 07/11/2024 **Last Amended on** 19/11/2022

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- CORROSION TESTS	Coatings	Water Resistance of coatings	ASTM D 1735
2	CHEMICAL- CORROSION TESTS	Coatings	Water resistance of coatings in 100% Relative Humidity	ASTM D 2247
3	CHEMICAL- CORROSION TESTS	copper/nickel/chromium coatings on steel, zinc, aluminium alloys and plastics	Copper Accelerated Acetic Acid Salt spray Test	ASTM B 368
4	CHEMICAL- CORROSION TESTS	Decorative Coatings of copper with nickel & chromium nickel with chromium, nickel with chromium, anodic and organic coatings on aluminium	Salt Spray Testing	ISO 9227
5	CHEMICAL- CORROSION TESTS	Ferrous materials, alloys & products	Ability of Volatile Corrosion Inhibitor Materials	NACE TM 0208-2018
6	CHEMICAL- CORROSION TESTS	Metallic &Non Metallic Materials	Neutral Salt Spray	IS 9844
7	CHEMICAL- CORROSION TESTS	Metallic &Non Metallic Materials	Salt Spray Test	ASTM B117
8	MECHANICAL-METALLOGRAPHY TEST	2XXX & 7XXX Series Aluminum Alloy Products	Determining the Susceptibility to Stress-Corrosion Cracking	ASTM G47 (RA2019)
9	MECHANICAL-METALLOGRAPHY TEST	5XXX Series Aluminum Alloy Products	Determining the Susceptibility to Intergranular Corrosion	ASTM G67
10	MECHANICAL-METALLOGRAPHY TEST	Aluminium 2XXX and 7XXX Alloy Series	Susceptibility to Exfoliation Corrosion	ASTM G 34
11	MECHANICAL-METALLOGRAPHY TEST	Aluminium Extruded Products	Corrosion Potential Measurement	ASTM G 69
12	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Resistance to intergranular Corrosion	ASTM A 262 (Method A)
13	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Resistance to intergranular Corrosion	ASTM A 262 (Method B)
14	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Resistance to intergranular Corrosion	ASTM A 262 (Method E)
15	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Resistance to intergranular Corrosion	ASTM A 262 (Method F)
16	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Resistance to intergranular Corrosion	ASTM A262 (Method C)
17	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Microstructure of Graphite in Iron Castings	ASTM A 247

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18	MECHANICAL-METALLOGRAPHY TEST	Coated Material	Coating Thickness measurement by microscopic method	ASTM B 487
19	MECHANICAL-METALLOGRAPHY TEST	Copper Alloys	Susceptibility to Stress Corrosion Cracking	ASTM B858-06
20	MECHANICAL-METALLOGRAPHY TEST	Copper Alloys	Stress corrosion resistance	ISO 6957:1988
21	MECHANICAL-METALLOGRAPHY TEST	copper alloys with zinc	Determination of dezincification resistance	ISO 6509-1:2014
22	MECHANICAL-METALLOGRAPHY TEST	Duplex Steel	Presence of detrimental Intermetallic Phase	ASTM A 923 (Method A)
23	MECHANICAL-METALLOGRAPHY TEST	Duplex Steel	Presence of Detrimental Intermetallic Phase	ASTM A 923 (Method C)
24	MECHANICAL-METALLOGRAPHY TEST	Ferritic Austenitic Duplex Stainless Steel	Pitting and Crevice Corrosion Resistance	ASTM G 48 (Method D)
25	MECHANICAL-METALLOGRAPHY TEST	Ferritic Austenitic Duplex Stainless Steel	Pitting and Crevice Corrosion Resistance	ASTM G 48 (Method A)
26	MECHANICAL-METALLOGRAPHY TEST	Ferritic Austenitic Duplex Stainless Steel	Pitting and Crevice Corrosion Resistance	ASTM G 48 (Method B)
27	MECHANICAL-METALLOGRAPHY TEST	Ferritic Austenitic Duplex Stainless Steel	Pitting and Crevice Corrosion Resistance	ASTM G 48 (Method E)
28	MECHANICAL-METALLOGRAPHY TEST	Ferritic Austenitic Duplex Stainless Steel	Pitting and Crevice Corrosion Resistance	ASTM G 48 (Method F)
29	MECHANICAL-METALLOGRAPHY TEST	Ferritic Austenitic Duplex Stainless Steel	Pitting and crevice Corrosion Resistance	ASTM G 48(Method C)
30	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steel	Susceptibility to intergranular Corrosion	ASTM A 763 (Method W)
31	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steel	Susceptibility to intergranular Corrosion	ASTM A 763 (Method X)
32	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steel	Susceptibility to intergranular Corrosion	ASTM A 763 (Method y)
33	MECHANICAL-METALLOGRAPHY TEST	Ferritic Stainless Steel	Susceptibility to intergranular Corrosion	ASTM A 763 (Method Z)
34	MECHANICAL-METALLOGRAPHY TEST	Ferrous (Pipeline and Pressure Vessel Steel)	Hydrogen Induced Cracking	NACE TM 0284
35	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non ferrous Materials	Macro etch Test	EN ISO 17639

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36	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Materials	Microstructure Examination	ASM Handbook Volume 9
37	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non ferrous Materials	Volume Fraction	ASTM E 1245
38	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non ferrous Materials	Volume Fraction	ASTM E 562
39	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Stress-Oriented Hydrogen-Induced Cracking Test	NACE TM 0103
40	MECHANICAL-METALLOGRAPHY TEST	Metallic & Non Metallic Material	Corrosion Rate	ASTM G 102-89
41	MECHANICAL-METALLOGRAPHY TEST	Metallic & Non Metallic Materials	Polarization Resistance	ASTM G 59(Ra 2014)
42	MECHANICAL-METALLOGRAPHY TEST	Metallic & Non Metallic Materials	Resistivity and Polarization Resistance (Sec.5.4 & 5.5)	IEC 62561-7
43	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Four Point Bend Testing of Material for Oil & Gas Application	NACE TM0316
44	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Stress Corrosion Cracking Resistance	ASTM G 36-94
45	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Stress Corrosion Cracking	NACE TM 0177 (Method A)
46	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Stress Corrosion Cracking	NACE TM 0177 (Method B)
47	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Stress Corrosion Cracking	NACE TM 0177 (Method C)
48	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Sulphide Stress Cracking	NACE TM 0177 (Method A)
49	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Sulphide Stress Cracking	NACE TM 0177 (Method B)
50	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Sulphide Stress Cracking	NACE TM 0177 (Method C)
51	MECHANICAL-METALLOGRAPHY TEST	Metallic Small Medical implant Devices	Corrosion Susceptibility	ASTM F 2129
52	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of decarburization	ASTM E 1077
53	MECHANICAL-METALLOGRAPHY TEST	Steel	Grain Size by comparison method	ASTM E 112

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54	MECHANICAL-METALLOGRAPHY TEST	Wrought Nickel Rich Chromium Bearing Alloys	Intergranular Corrosion	ASTM G 28