



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BISS LABS - DIVISION OF ITW INDIA PRIVATE LIMITED, #497/E, 14TH CROSS, 4TH PHASE, 2ND STAGE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7512	Page No	1 of 4
Validity	29/06/2023 to 28/06/2025	Last Amended on	04/07/2023

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	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & product	Fracture Toughness (J1c)	BS7448-1
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Axial fatigue Test	ASTM E 466
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Axial Fatigue Test for fatigue properties	ASTM E 606M
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Compression Test-Compressive strength	ASTM E9
5	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Compression Test-Yield strength	ASTM E9
6	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Creep & Stress Rapture Test-% Elongation	ASTM E139
7	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Creep & Stress Rapture Test-Strain Rate	ASTM E139
8	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Creep & Stress Rapture Test-Stress	ASTM E139
9	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Creep Fatigue loading	ASTM E2714
10	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Elevated Temperature Tensile Test-%Elongation	ASTM E21
11	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Elevated Temperature Tensile Test-0.2% Yield strength	ASTM E21
12	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Elevated Temperature Tensile Test-Ultimate tensile strength	ASTM E21
13	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Fatigue Crack growth Test	ASTM E647



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14	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Fatigue Test	IS 16651
15	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Fracture Toughness (CTOD)	BS7448-1
16	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Fracture toughness Test (K1c)	ASTM E399
17	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Fracture toughness Test using K, J and CTOD parameters	ASTM E1820
18	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Fracture Toughness test(K1c)	BS7448-1
19	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Poisson's ratio Test	ASTM E132
20	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Tensile Shear Strength Test (for adhesives for bonding metals)	ASTM D3528
21	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Tensile Test-%Elongation	ASTM E8
22	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Tensile test-0.2% Yield strength	ASTM E8
23	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Tensile Test-Ultimate tensile strength	ASTM E8
24	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Thermo- mechanical uniaxial fatigue	ASTM E2368
25	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic reinforced plastic Components	Tensile Shear Strength Test-Shear Strength	ASTM D3528
26	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Compression Modulus	ASTM C365
27	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Compression Strength	ASTM C365
28	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Compression Test	ASTM D1621



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29	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Compression Test-compression chord Modulus	ISO 14126
30	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Compression test-compressive strength	ISO 14126
31	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Cracked Sandwich Beam Test-compressive strength	ASTM C393
32	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Cracked Sandwich Beam Test-Max load	ASTM C393
33	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Face wrinkle Test	ASTM C393
34	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Max load	ASTM C365
35	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Peel Test (peel resistance)	ASTM D1781
36	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Shear test	ASTM C273
37	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Tensile shear -Max load	ISO 14129
38	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Tensile shear -Shear strength	ISO 14129
39	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Tensile shear-Shear modulus	ISO 14129
40	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Tensile test-%Elongation	ASTM D3039
41	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Tensile test-%Elongation	ISO 527-4
42	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Tensile test-Ultimate tensile strength	ASTM D3039
43	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Tensile test-Ultimate tensile strength	ISO 527-4
44	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Tensile test-Young's Modulus	ASTM D3039
45	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Tensile test-Young's Modulus	ISO 527-4
46	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Uniaxial Fatigue Test	ISO 13003
47	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymer matrix composite	Compression test-compressive strength	ASTM D6484



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48	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymer matrix composite	Flexural Test -Flexural Strength	ASTM D2344
49	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymer matrix composites	Compression test-compressive strength	ASTM D3410
50	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Sandwich pannel	Tensile shear Test	ASTM C297
51	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Structural Adhesives	Fatigue test	ISO 9664
52	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and reinforced composites	Shear Test-Shear strength	ASTM D5379
53	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and reinforced Plastics	Tensile Test-Ultimate tensile strength	ASTM D638
54	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and reinforced Plastics and electrical insulating materials	Flexural Test-strength	ASTM D790
55	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber, Vulacanisised or thermoplastic	Shear stiffness Test	ISO4664