



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BHARAT FORGE LIMITED - METALLURGICAL LAB, PUNE CONTONMENT BOARD, MUNDHWA, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6609	Page No	1 of 4
Validity	21/12/2021 to 20/12/2023	Last Amended on	24/01/2022

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	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Testing of Material for Ductility	ASTM E290
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Testing of Material for Ductility	IS1599
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness (HBW) Test (10mm/3000Kgf)	ISO-6506-1
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness Test (HBW) (10mm/3000Kgf)	IS 1500 PART 1
5	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Estimation of Grain Size By Comparison method Untwined Grains	ASTM E 112
6	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Izod Impact test (Room temperature)	BS131 Part 1
7	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Izod Impact Test (Room temperature)	IS 1598: 1977 RA : 2015
8	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Micro Vickers Hardness Test (HV @ 1.0Kgf)	ISO-6507-1
9	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Micro Vickers Hardness Test @ HV1.0 Kgf	ASTM E384
10	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness test (HRA)	ISO 6508-1
11	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness test (HRA)	ASTM E18
12	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness test (HRA)	IS 1586 Part 1
13	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Strength	ISO 6892-1



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14	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	U Notch Charpy Impact Test (Room to -196 deg C)	IS-1499
15	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	V & U notch Charpy Impact Test (Room Temperature to -196 deg C)	ASTM E23
16	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	V & U notch Charpy Impact Test (Room Temperature to -196 deg C)	ISO 148-PART 1
17	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	V & U notch Charpy Impact Test (Room Temperature to -196 deg C)	JIS Z 2242
18	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	% Elongation	ASTM A370
19	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	% Elongation	ASTM E8/8M
20	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	% Elongation	IS 1608 Part 1
21	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	% Elongation	ISO 6892-1
22	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	% Reduction of Area	ASTM E 8/8M
23	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	% Reduction of Area	IS 1608 Part 1
24	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	% Reduction of Area	ISO 6892 Part 1
25	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	0.2% Proof Stress	ASTM A370
26	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	0.2% Proof Stress	ASTM E8/8M
27	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	0.2% Proof Stress	IS 1608 Part 1



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28	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	0.2% Proof Stress	ISO 6892 Part 1
29	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Bend Test	ISO 7438
30	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Brinell Hardness Test (HBW) ((10mm/3000Kgf)	ASTM E10
31	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Rockwell Hardness test (HRBW)	ASTM E18
32	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Rockwell Hardness test (HRBW)	IS 1586 Part 1
33	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Rockwell Hardness test (HRBW)	ISO 6508-1
34	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Rockwell Hardness test (HRC)	ASTM E18
35	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Rockwell Hardness test (HRC)	IS 1586 Part 1
36	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Rockwell Hardness test (HRC)	ISO 6508-1
37	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Tensile Strength	ASTM A370
38	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Tensile Strength	ASTM E8/8M
39	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Tensile Strength	IS-1608 Part 1
40	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Tensile Strength	ISO 6891-1
41	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Yield Strength	ASTM A370



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42	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Yield Strength	ASTM E8/8M
43	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Yield Strength	IS 1608 Part 1
44	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Yield Strength	ISO 6892-1
45	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Depth of Decarburized Layer a) by Microscopic method	ASTM E1077
46	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Depth of Decarburized Layer b) by Micro indentation hardness methods	ASTM E1077
47	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Depth of Decarburized Layer by Hardness traverse method	SAE J 419
48	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Determination of inclusion rating (Comparison Method)	IS 4163
49	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Determination of inclusion rating (Comparison Method)	ISO 4967
50	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Determination of inclusion rating (Method A)	ASTM E 45
51	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Effective Case Depth measurement by micro hardness method	DIN EN 10328
52	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Effective Case Depth measurement by micro hardness method.	IS 6416:1988
53	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Estimation of Grain Size By Comparison method Untwined Grains	ISO 643
54	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Etch Test	ASTM E381
55	MECHANICAL-METALLOGRAPHY TEST	Other Non-Ferrous metals, alloy & products	Microstructure Examination	ASM Hand Book Vol.9