



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name ANKIT FASTENERS PVT. LTD., NO.297, HARAGADDE VILLAGE, ROAD NO.4, JIGANI INDUSTRIAL ESTATE PHASE-1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5882 Page No. : 1 / 6

Validity 05/07/2019 to 04/07/2021 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
<b>Permanent Facility</b>					
1	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All type of structural fastners	Rockwell Hardness	NASM 1312-6: 2013	20 HRA to 95 HRA, 20 HRC to 70 HRC, 10 HRBW to 100 HRBW
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All types of structural fasteners	Axial tension test at room temperature	NASM 1312-8 Rev.2: 2011	100 Mpa to 2500 Mpa, 2 KN to 250 KN
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	All types of structural fasteners.	Tension test at room temperature	NAM1312-108 Rev.1: 2012	100 Mpa to 2500 Mpa, 2 KN to 250 KN
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolt, Screw and nuts	Tension FatigueRoom Temperature	NASM 1312-11: 2017	Qualitative
5	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolt, Screw and nuts	Tension FatigueRoom Temperature	NASM 1312: 2012	Qualitative
6	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolt, Screw and nuts	Tension FatigueRoom Temperature	NAM 1312-111: 2013	Qualitative
7	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolt, Screws and studs of coarse & fine pitch thread made of carbon steel and alloys steel	Proof Load	ISO 898-1: 2013	Qualitative



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8	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bolts, screws, nuts and materials	Stress Rupture Time for rupture Elongation Reduction Area	NASM 1312-10: 2017	2 KN to 40 KN, 3% to 100%, 10% to 80%
9	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Cylindrical metallic products, like cold heading wire & rods, rivets & pins	Shear strength & Shear load	IS:5242: 2010	2 KN to 250 KN, 10 Kg/mm <sup>2</sup> to 200Kg/mm <sup>2</sup>
10	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Externally and internally threaded fasteners	Proof Load	ASTM F606 M: 2016	Qualitative
11	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Externally threaded fasteners	Axial Tension Testing & Wedge Tension Testing of Full-Size Product	ASTM F606M: 2016	100 Mpa to 2500 Mpa, 2KN to 250 KN
12	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Fasteners	Double Shear	NAM 1312-113: 2012	2 KN to 250 KN
13	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Fasteners	Double Shear	NASM 1312-13: 2013	2 KN to 250 KN
14	MECHANICAL- MECHANICAL PROPERTIES OF METALS	For all types of externally threaded fasteners	Stress Durability	NASM 1312-5: 2012	Qualitative



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15	MECHANICAL- MECHANICAL PROPERTIES OF METALS	For all types of externally threaded fasteners	Stress Durability	NASM 1312-105: 2012	Qualitative
16	MECHANICAL- MECHANICAL PROPERTIES OF METALS	For all types of internally threaded fasteners	Stress Durability Internally threaded	NASM 1312-14: 2012	Qualitative
17	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Hard metals	Vickers Hardness	IS 12783: 2009	100 HV to 600 HV
18	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic materials	0.2% Proof Strength	ASTM E8/E8M: 2016	100 Mpa to 2500 Mpa, 2 KN to 250 KN
19	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic materials	Elongation	ASTM E8/E8M: 2016	5 % to 80 %
20	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Reduction In Area	ASTM E8/E8M: 2016	10 % to 80 %
21	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic materials	Rockwell Hardness	ASTM E -18: 2018	20 HRA to 95 HRA, 20 HRC to 70 HRC, 10 HRBW to 100 HRBW



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22	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness	ASTM -A370: 2018	20 HRA to 95 HRA, 20 HRC to 70 HRC, 10 HRBW to 100 HRBW
23	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic materials	Rockwell Hardness	IS:1586-1: 2018	20 HRA, HRC, HRB to 100 HRA, HRC, HRB
24	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic materials	Stress Rupture Time for rupture Elongation Reduction Area	ASTM E139: 2011	2 KN to 40 KN, 3% to 100%, 10% to 80%
25	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic materials	Tensile Strength	ASTM E8/E8M: 2016	100 Mpa to 2500 Mpa, 2 KN to 250 KN
26	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic materials	Vickers Hardness	ASTM -E92: 2017	100 HV to 600 HV
27	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness	IS 1501: 2013	100 HV to 600 HV
28	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Notched specimen of Materils	Stress Rupture Time for rupture Elongation Reduction Area	ASTM E292: 2009	2 KN to 40 KN, 3% to 100%, 10% to 80%



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29	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steels, stainless steels, and alloys	Tensile Test	ASTM A370: 2017	100 Mpa to 2500 Mpa, 2 KN to 250 KN
30	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Stell Bolt, Screws, studs and nuts of coarse & fine pitch thread made of steels, stainless steels and alloys	Proof Load	ASTM A370: 2018	Qualitative
31	MECHANICAL- METALLOGRAPHY TEST	Bolts, screws and nuts made of carbon steel and alloy steel	Decarburization by Microscopic Method	ISO 898-1: 2013	1 Micron to 200 Micron
32	MECHANICAL- METALLOGRAPHY TEST	Iron & steel	Microstructural Analysis & Microstructural examination	ASM Hand Book Vol- 9, IS7739: 2007	Qualitative
33	MECHANICAL- METALLOGRAPHY TEST	Metal & Oxide Coatings	Coating Thickness by Microscopic Method	ASTM B487: 2013	2 microns to 100 microns
34	MECHANICAL- METALLOGRAPHY TEST	Metallic & non metallic Materials	Grain Size Measurement by Comparison Method	ASTM E112: 2013	Qualitative(0 to 10.0)
35	MECHANICAL- METALLOGRAPHY TEST	Metals and alloys	Macrostructure Examination	ASTM E340: 2015	Qualitative
36	MECHANICAL- METALLOGRAPHY TEST	Nonmetallic inclusion content of wrought steel	Rating nonmetallic inclusion content by microscopic method	ASTM E45: 2013	Qualitative(0.5 to 3.0)



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37	MECHANICAL-METALLOGRAPHY TEST	Rolled or forged steel products	Rating nonmetallic inclusion content by microscopic method.	ISO 4967: 2013	Qualitative(0.5 to 3.0)
38	MECHANICAL-METALLOGRAPHY TEST	Rolled or forged steel products	Rating nonmetallic inclusion content by microscopic method.	IS 4163: 2010	Qualitative(0.5 to 3.0)
39	MECHANICAL-METALLOGRAPHY TEST	Steel products such as bars, billets, blooms, and forgings	Macrostructure Examination	ASTM E381: 2012	Qualitative
40	MECHANICAL-METALLOGRAPHY TEST	Steels	Decarburization by Microscopic Method	ASTM E1077: 2014	1 Micron to 200 Micron