# 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 |
|---|---|---|---|---|---|
| **Permanent Facility** | | | | | |
| 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/mm² to 200Kg/mm2 |
| 10 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Externally and internally threaded fastners | 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 Meterials | 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 |