# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** GSD LAB, SHOP 7,8 & 9, PLOT NO. A/2/A, CAPITAL CITY, CHAKAN INDUSTRIAL AREA, PHASE-IV, VILLAGE: NIGOJE, CHAKAN, PUNE, MAHARASHTRA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

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**Validity** 22/09/2021 to 21/09/2023 **Last Amended on** -

| 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 | Coated Products / Panels / Raw Materials | Salt Spray Test | ASTM B117 |
| 2 | CHEMICAL- CORROSION TESTS | Coated Products / Panels / Raw Materials | Salt Spray Test | ISO 9227 |
| 3 | CHEMICAL- CORROSION TESTS | Painted Products / Panels / Raw Materials | Salt Spray Test | ASTM B117 |
| 4 | CHEMICAL- CORROSION TESTS | Painted Products / Panels / Raw Materials | Salt Spray Test | ISO 9227 |
| 5 | CHEMICAL- CORROSION TESTS | Plated Products / Panels / Raw Materials | Salt Spray Test | ASTM B117 |
| 6 | CHEMICAL- CORROSION TESTS | Plated Products / Panels / Raw Materials | Salt Spray Test | ISO 9227 |
| 7 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Bismuth | ASTM E1251 |
| 8 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Chromium | ASTM E1251 |
| 9 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Cobalt | ASTM E1251 |
| 10 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Copper | ASTM E1251 |
| 11 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Iron | ASTM E1251 |
| 12 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Lead | ASTM E1251 |
| 13 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Magnesium | ASTM E1251 |
| 14 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Manganese | ASTM E1251 |
| 15 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Nickel | ASTM E1251 |
| 16 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Silicon | ASTM E1251 |
| 17 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Tin | ASTM E1251 |
| 18 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Titanium | ASTM E1251 |

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|---|---|---|---|---|
| 19 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Vanadium | ASTM E1251 |
| 20 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Zinc | ASTM E1251 |
| 21 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Antimony | BS EN 15079 |
| 22 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Iron | BS EN 15079 |
| 23 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Lead | BS EN 15079 |
| 24 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Nickel | BS EN 15079 |
| 25 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Phosphorus | BS EN 15079 |
| 26 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Tin | BS EN 15079 |
| 27 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Zinc | BS EN 15079 |
| 28 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Aluminium | ASTM E 415 |
| 29 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Aluminum | IS 8811 -1998 |
| 30 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Boron | ASTM E 415 |
| 31 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Boron | IS 8811 -1998 |
| 32 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Carbon | ASTM E 415 |
| 33 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Carbon | IS 8811 -1998 |
| 34 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Chromium | ASTM E 415 |
| 35 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Chromium | IS 8811 -1998 |
| 36 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Cobalt | IS 8811 -1998 |
| 37 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Cobalt | ASTM E 415 |

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|---|---|---|---|---|
| 38 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Copper | ASTM E 415 |
| 39 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Copper | IS 8811 -1998 |
| 40 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Manganese | ASTM E 415 |
| 41 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Manganese | IS 8811 -1998 |
| 42 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Molybdenum | IS 8811 -1998 |
| 43 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Molybdeum | ASTM E 415 |
| 44 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Nickel | ASTM E 415 |
| 45 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Nickel | IS 8811 -1998 |
| 46 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Niobium | ASTM E 415 |
| 47 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Niobium | IS 8811 -1998 |
| 48 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Phosphorus | ASTM E 415 |
| 49 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Phosphorus | IS 8811 -1998 |
| 50 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Silicon | ASTM E 415 |
| 51 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Silicon | IS 8811 -1998 |
| 52 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Sulphur | ASTM E 415 |
| 53 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Sulphur | IS 8811 -1998 |
| 54 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Tin | ASTM E 415 |
| 55 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Tin | IS 8811 -1998 |
| 56 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Titanium | IS 8811 -1998 |

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| 57 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Titanium | ASTM E 415 |
| 58 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Vanadium | ASTM E 415 |
| 59 | CHEMICAL- METALS & ALLOYS | Low Carbon Alloy Steel and Mild Steel | Vanadium | IS 8811 -1998 |
| 60 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Carbon | ASTM E 1086 |
| 61 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Carbon | IS 9879 -1998 |
| 62 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Chromium | ASTM E 1086 |
| 63 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Chromium | IS 9879 -1998 |
| 64 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Copper | ASTM E 1086 |
| 65 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Copper | IS 9879 -1998 |
| 66 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Manganese | ASTM E 1086 |
| 67 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Manganese | IS 9879 -1998 |
| 68 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Molybdenum | ASTM E 1086 |
| 69 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Molybdenum | IS 9879 -1998 |
| 70 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Nickel | ASTM E 1086 |
| 71 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Nickel | IS 9879 -1998 |
| 72 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Phosphorus | ASTM E 1086 |
| 73 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Phosphorus | IS 9879 -1998 |
| 74 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Silicon | ASTM E 1086 |
| 75 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Silicon | IS 9879 -1998 |

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|---|---|---|---|---|
| 76 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Sulphur | ASTM E 1086 |
| 77 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Sulphur | IS 9879 -1998 |
| 78 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Materials | Charpy Impact Test U Notch V Notch (Temp: Room Temp to -40°C). | ASME Section IX |
| 79 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Materials | Charpy Impact Test U Notch V Notch (Temp: Room Temp to -40°C). | ASTM A370 |
| 80 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Materials | Charpy Impact Test U Notch V Notch (Temp: Room Temp to -40°C). | ASTM E23 |
| 81 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Materials | Charpy Impact Test U Notch V Notch (Temp: Room Temp to -40°C). | EN ISO 148-1 |
| 82 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Materials | Charpy mpact Test U Notch (Temp: Room Temp to -40°C). | IS 1499: RA2015 |
| 83 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | % Elongation | ASME Section IX |
| 84 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | % Elongation | ASTM A370 |
| 85 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | % Elongation | ASTM E8/ 8M |
| 86 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | % Elongation | AWS D1.1 |
| 87 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | % Elongation | IS 1608 part1 |
| 88 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | % Elongation | ISO 6892 part1 |
| 89 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | % Reduction in Area | ASME Section IX |

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|---|---|---|---|---|
| 90 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | % Reduction in Area | ASTM A370 |
| 91 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | % Reduction in Area | ASTM E8/ 8M |
| 92 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | % Reduction in Area | AWS D1.1 |
| 93 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | % Reduction in Area | IS 1608 part 1 |
| 94 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | % Reduction in Area | ISO 6892 part1 |
| 95 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Bend Test | ASME Section IX |
| 96 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Bend Test | ASTM A370 |
| 97 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Bend Test | AWS D1.1 |
| 98 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Bend Test | IS 1599- |
| 99 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Brinell hardness (10mm/3000kg) | ASTM E10 |
| 100 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Brinell hardness (10mm/3000kg) | ISO 6507 (Part-I) |
| 101 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Brinell hardness (5mm/750kg) | ASTM E10 |
| 102 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Brinell hardness (5mm/750kg) | IS 1500 (Part-I) |
| 103 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Brinell hardness (5mm/750kg) | IS 1500 (Part-I) |

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|---|---|---|---|---|
| 104 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Brinell hardness (5mm/750kg) | ISO 6507 (Part-I) |
| 105 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | charpy Impact Test U Notch V Notch | ASME Section IX |
| 106 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Hardenability of steel by end quench or Jominy test | IS 3848- R2003 |
| 107 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Hardenability of steel by end quench or Jominy test | SAE J 406 |
| 108 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Impact Test U Notch V Notch | AWS D1.1 |
| 109 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Micro Hardness | ASTM E384 |
| 110 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Micro Hardness | ASTM E384 |
| 111 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Micro Hardness | ASTM E384 |
| 112 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Micro Hardness | IS 1501 (Part-I) |
| 113 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Micro Hardness | IS 1501 (Part-I) |
| 114 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Micro Hardness | IS 1501 (Part-I) |
| 115 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Micro Hardness | ISO 6507 (Part-I) |
| 116 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Micro Hardness | ISO 6507 (Part-I) |
| 117 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Micro Hardness | ISO 6507 (Part-I) |

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|---|---|---|---|---|
| 118 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Proof Stress | ASME Section IX |
| 119 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Proof Stress | ASTM A370 |
| 120 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Proof Stress | ASTM E8/ 8M |
| 121 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Proof Stress | AWS D1.1 |
| 122 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Proof Stress | ISO 6892 part1 |
| 123 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and alloys | Rockwell Hardness | ASTM E18 |
| 124 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and alloys | Rockwell Hardness | ASTM E18 |
| 125 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and alloys | Rockwell Hardness | ASTM E18 |
| 126 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and alloys | Rockwell Hardness | IS 1586 (Part I) |
| 127 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Rockwell Hardness | IS 1586 (Part I) |
| 128 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and alloys | Rockwell Hardness | IS 1586 (Part I) |
| 129 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and alloys | Rockwell Superficial Hardness | ASTM E18 |
| 130 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and alloys | Rockwell Superficial Hardness | ASTM E18 |
| 131 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and alloys | Rockwell Superficial Hardness | IS 1586 (Part I) |

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| 132 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and alloys | Rockwell Superficial Hardness | IS 1586 (Part I) |
| 133 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Ultimate Tensile Stress | ASME Section IX |
| 134 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Ultimate Tensile Stress | ASTM A370 |
| 135 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Ultimate Tensile Stress | ASTM E8/ 8M |
| 136 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Ultimate Tensile Stress | AWS D1.1 |
| 137 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Ultimate Tensile Stress | IS 1608 part1 |
| 138 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Ultimate Tensile Stress | ISO 6892 part1 |
| 139 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and alloys | Vickers Hardness(HV10) | ASTM E92 |
| 140 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and alloys | Vickers Hardness(HV10) | IS 1501 (Part I) |
| 141 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and alloys | Vickers Hardness(HV10) | ISO 6507 (Part I) |
| 142 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and alloys | Vickers Hardness(HV30) | ASTM E92 |
| 143 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and alloys | Vickers Hardness(HV30) | IS 1501 (Part I) |
| 144 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and alloys | Vickers Hardness(HV30) | ISO 6507 (Part I) |
| 145 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and alloys | Vickers Hardness(HV5) | ASTM E92 |

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| 146 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and alloys | Vickers Hardness(HV5) | IS 1501 (Part I) |
| 147 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and alloys | Vickers Hardness(HV5) | ISO 6507 (Part I) |
| 148 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Weld Hardness in metallic materials | ISO 9015 (Part II) |
| 149 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Yield Stress | ASME Section IX |
| 150 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Yield Stress | ASTM A370 |
| 151 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Yield Stress | ASTM E8/ 8M |
| 152 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Yield Stress | AWS D1.1 |
| 153 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Yield Stress | IS 1608 part1 |
| 154 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Yield Stress | IS 1608 part1 |
| 155 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous metals and Alloys | Yield Stress | ISO 6892 part1 |
| 156 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloy | Vickers Hardness | ASTM E92 |
| 157 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | % Elongation | ASME Section IX |
| 158 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | % Elongation | ASTM E8/ 8M |
| 159 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | % Elongation | AWS D1.1 |

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| 160 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | % Elongation | IS 1608 part1 |
| 161 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | % Elongation | ISO 6892 part1 |
| 162 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | % Reduction in Area | ASME Section IX |
| 163 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | % Reduction in Area | ASTM E8/ 8M |
| 164 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | % Reduction in Area | AWS D1.1 |
| 165 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | % Reduction in Area | IS 1608 part1 |
| 166 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | % Reduction in Area | ISO 6892 part1 |
| 167 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Bend Test | ASME Section IX |
| 168 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Bend Test | ASTM A370 |
| 169 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Bend Test | AWS D1.1 |
| 170 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Bend Test | IS 1599- |
| 171 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Brinell hardness (10mm/3000kg) | ASTM E10 |
| 172 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Brinell hardness (10mm/3000kg) | IS 1500 (Part-I) |
| 173 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Brinell hardness (10mm/3000kg) | IS 1500 (Part-I) |

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|---|---|---|---|---|
| 174 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Brinell hardness (10mm/3000kg) | ISO 6507 (Part-I) |
| 175 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Brinell hardness (5mm/750kg) | ASTM E10 |
| 176 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Brinell hardness (5mm/750kg) | ISO 6507 (Part-I) |
| 177 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Micro Hardness | ASTM A370 |
| 178 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Micro Hardness | ASTM E384 |
| 179 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Micro Hardness | ASTM E384 |
| 180 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Micro Hardness | IS 1501 (Part-I) |
| 181 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Micro Hardness | IS 1501 (Part-I) |
| 182 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Micro Hardness | IS 1501 (Part-I) |
| 183 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Micro Hardness | ISO 6507 (Part-I) |
| 184 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Micro Hardness | ISO 6507 (Part-I) |
| 185 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Micro Hardness | ISO 6507 (Part-I) |
| 186 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Proof Stress | ASME Section IX |
| 187 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Proof Stress | ASTM A370 |

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|---|---|---|---|---|
| 188 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Proof Stress | ASTM E8/ 8M |
| 189 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Proof Stress | AWS D1.1 |
| 190 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Proof Stress | IS 1608 part1 |
| 191 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Proof Stress | ISO 6892 part1 |
| 192 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloys | Rockwell Hardness | ASTM E18 |
| 193 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloys | Rockwell Hardness | ASTM E18 |
| 194 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloys | Rockwell Hardness | ASTM E18 |
| 195 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloys | Rockwell Hardness | IS 1586 (Part I) |
| 196 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloys | Rockwell Hardness | IS 1586 (Part I) |
| 197 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloys | Rockwell Hardness | IS 1586 (Part I) |
| 198 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloys | Rockwell Superficial Hardness | ASTM E18 |
| 199 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloys | Rockwell Superficial Hardness | ASTM E384 |
| 200 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloys | Rockwell Superficial Hardness | IS 1586 (Part I) |
| 201 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloys | Rockwell Superficial Hardness | IS 1586 (Part I) |

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|---|---|---|---|---|
| 202 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Ultimate Tensile Stress | ASME Section IX |
| 203 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Ultimate Tensile Stress | ASTM E8/ 8M |
| 204 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Ultimate Tensile Stress | AWS D1.1 |
| 205 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Ultimate Tensile Stress | IS 1608 part1 |
| 206 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Ultimate Tensile Stress | ISO 6892 part1 |
| 207 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloys | Vickers Hardness | ASTM E92 |
| 208 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloys | Vickers Hardness | ASTM E92 |
| 209 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloys | Vickers Hardness | IS 1501 (Part I) |
| 210 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloys | Vickers Hardness | IS 1501 (Part I) |
| 211 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloys | Vickers Hardness | IS 1501 (Part I) |
| 212 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloys | Vickers Hardness | ISO 6507 (Part I) |
| 213 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloys | Vickers Hardness | ISO 6507 (Part I) |
| 214 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and alloys | Vickers Hardness | ISO 6507 (Part I) |
| 215 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Yield Stress | ASME Section IX |

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|---|---|---|---|---|
| 216 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Yield Stress | ASTM A370 |
| 217 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Yield Stress | ASTM E8/ 8M |
| 218 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Yield Stress | AWS D1.1 |
| 219 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Yield Stress | IS 1608 part1 |
| 220 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous metals and Alloys | Yield Stress | ISO 6892 part1 |
| 221 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel Pipe, Tube | Flaring Test | ASTM A370 |
| 222 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel Pipe, Tube | Flattening Test | ASTM A370 |
| 223 | MECHANICAL-METALLOGRAPHY TEST | Cast Iron (White, Gray, Malleable, Ductile) | Graphite Type, Distribution, Size, Nodularity and Nodule count | IS 7754 |
| 224 | MECHANICAL-METALLOGRAPHY TEST | Cast Iron (White, Gray, Malleable, Ductile) | Graphite Type, Distribution, Size, Nodularity and Nodule count | ISO 945 |
| 225 | MECHANICAL-METALLOGRAPHY TEST | Ferrous Materials | Dimensional Measurement of Weld Joint | ASME SEC IX |
| 226 | MECHANICAL-METALLOGRAPHY TEST | Ferrous Materials | Dimensional Measurement of Weld Joint | AWS D1.1 |
| 227 | MECHANICAL-METALLOGRAPHY TEST | Ferrous Materials | Dimensional Measurement of Weld Joint | IS 7310 (Part I) |
| 228 | MECHANICAL-METALLOGRAPHY TEST | Ferrous Materials | Dimensional Measurement of Weld Joint | IS 7318 (Part I) |
| 229 | MECHANICAL-METALLOGRAPHY TEST | Ferrous Materials | Dimensional Measurement of Weld Joint | ISO 17639 |
| 230 | MECHANICAL-METALLOGRAPHY TEST | Ferrous Materials | Dimensional Measurement of Weld Joint | ISO 5817 |

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|---|---|---|---|---|
| 231 | MECHANICAL-METALLOGRAPHY TEST | Ferrous metals and Alloys | Coating Thickness by Microscopic Method | IS 3203 |
| 232 | MECHANICAL-METALLOGRAPHY TEST | Ferrous metals and Alloys | Decarburized Depth by microscopic method | IS 6396 - |
| 233 | MECHANICAL-METALLOGRAPHY TEST | Ferrous metals and Alloys | Effective case depth by micro hardness transverse method | IS 1501 part1 |
| 234 | MECHANICAL-METALLOGRAPHY TEST | Ferrous metals and Alloys | Effective case depth by micro hardness transverse method | IS 6416 |
| 235 | MECHANICAL-METALLOGRAPHY TEST | Ferrous metals and Alloys | Estimation of Grain Size by Microscopic Method (Comparison Method) | ASTM E112 |
| 236 | MECHANICAL-METALLOGRAPHY TEST | Ferrous metals and Alloys | Estimation of Grain Size by Microscopic Method (Comparison Method) | IS 4748 |
| 237 | MECHANICAL-METALLOGRAPHY TEST | Ferrous metals and Alloys | Estimation of Grain Size by Microscopic Method (Comparison Method) | ISO 643 |
| 238 | MECHANICAL-METALLOGRAPHY TEST | Ferrous metals and Alloys | Inclusion Rating | ASTM E45 |
| 239 | MECHANICAL-METALLOGRAPHY TEST | Ferrous metals and Alloys | Inclusion Rating | IS 4163- |
| 240 | MECHANICAL-METALLOGRAPHY TEST | Ferrous metals and Alloys | Inclusion Rating | ISO 4967 (Part I) |
| 241 | MECHANICAL-METALLOGRAPHY TEST | Ferrous metals and alloys | Inter Granular Oxidation | AGMA923 -B05 |
| 242 | MECHANICAL-METALLOGRAPHY TEST | Ferrous metals and Alloys | Measuring Decarburized Depth of steel by micro hardness transverse method | IS 6396 |
| 243 | MECHANICAL-METALLOGRAPHY TEST | Ferrous metals and Alloys | Microstructural Analysis | ASM Handbook Vol. 9 |
| 244 | MECHANICAL-METALLOGRAPHY TEST | Ferrous metals and alloys | Non Martensitic Transformation material | AGMA923 -B05 |
| 245 | MECHANICAL-METALLOGRAPHY TEST | Ferrous metals and alloys | Retained Austenite | AGMA923 -B05 |
| 246 | MECHANICAL-METALLOGRAPHY TEST | Ferrous metals and Alloys | Total case depth by microscopic method | IS 1501 part1 |
| 247 | MECHANICAL-METALLOGRAPHY TEST | Ferrous metals and Alloys | Total case depth by microscopic method | IS 6416 - |

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|---|---|---|---|---|
| 248 | MECHANICAL-METALLOGRAPHY TEST | Metals, Steel Bars, Billets, Blooms, Forgings | Grain Flow in forged | IS 11371 |
| 249 | MECHANICAL-METALLOGRAPHY TEST | Metals, Steel Bars, Billets, Blooms, Forgings | Grain Flow in forged | IS 13015 |
| 250 | MECHANICAL-METALLOGRAPHY TEST | Non Ferrous metals and Alloys | Estimation of Grain Size by Microscopic Method (Comparison Method) | ASTM E112 |
| 251 | MECHANICAL-METALLOGRAPHY TEST | Non Ferrous metals and Alloys | Estimation of Grain Size by Microscopic Method (Comparison Method) | IS 4748 |
| 252 | MECHANICAL-METALLOGRAPHY TEST | Non Ferrous metals and Alloys | Estimation of Grain Size by Microscopic Method (Comparison Method) | IS 643 |
| 253 | MECHANICAL-METALLOGRAPHY TEST | Non Ferrous metals and Alloys | Inclusion Rating | ASTM E45 |
| 254 | MECHANICAL-METALLOGRAPHY TEST | Non Ferrous metals and Alloys | Inclusion Rating | IS 4163- |
| 255 | MECHANICAL-METALLOGRAPHY TEST | Non Ferrous metals and Alloys | Inclusion Rating | ISO 4967 (Part I) |
| 256 | MECHANICAL-METALLOGRAPHY TEST | Non Ferrous metals and Alloys | Microstructural Analysis | ASM Handbook Vol. 9 |