# Quality And Accreditation Institute

## Centre for International Accreditation

# Certificate of Accreditation

## Indian Testing Laboratory Private Limited

*Plot No.-41, Udyog Kendra Extension-II, Ecotech-III, Gautam Budha Nagar*
*Greater Noida -201306, Uttar Pradesh, India*

*has been assessed and accredited in accordance with the Standard*

***ISO/IEC 17025:2017***

*"General Requirements for the Competence of Testing and Calibration Laboratories"*
*In the field of*

***Testing***

*This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued compliance to the above standard & any other requirements specified by QAI.*

***QAI/CIA/TL/2025/0108***

*Valid from:* ***14 November 2026***

*Valid until:* ***18 March 2027***

***Dr. Bhupendra Kumar Rana***
*Chief Executive Officer*

***Prof. Vikram Kumar***
*Chair, CIA*

*User is advised to verify the current certificate and scope of accreditation by visiting our website: www.qai.org.in*

# Quality And Accreditation Institute
## Centre for International Accreditation

## Scope of Accreditation

**Indian Testing Laboratory Private Limited**

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Accreditation Standard: ISO/IEC 17025:2017

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| Chemical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Water** | | |
| 1. | Water for Construction Purpose | Organic Solids | IS:3025(P-18)-2022 |
| 2. | | Inorganic Solids | IS:3025(P-18)-2022 |
| 3. | | Sulphate as SO3 | IS:3025(P-24/S-1)-2022 |
| 4. | | Chloride as Cl | IS:3025(P-32)-1988 RA 2019 |
| 5. | | Total Suspended Solids | IS:3025(P-17)-2022 |
| 6. | | pH Value | IS:3025(P-11)-2022 |
| 7. | | Alkalinity (Vol. of 0.02N H2SO4 used for 100 ml of Sample) | IS:3025(P-23)-2023 |
| 8. | | Acidity (Vol. of 0.02N NaOH used for 100 ml of Sample) | IS:3025(P-22) 2024 |
| 9. | Drinking Water / Ground Water / RO Water | Alkalinity (as CaCO3) | IS 3025 (Part 23) : 2023 |
| 10. | | Calcium (as Ca) | IS 3025 (Part 40): 2024 |
| 11. | | Chloride (as Cl) | IS 3025 (Part 32): 1988 RA 2019 |
| 12. | | Colour | IS 3025 (Part 4): 2021 |
| 13. | | Fluoride | IS: 3025 (Part- 60/ Sec - 1): 2023 |
| 14. | | Iron (as Fe) | IS 3025 (Part 53) : 2024 |
| 15. | | Magnesium (as Mg) | IS 3025 (Part 46): 2023 |

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| Chemical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Water** | | |
| 16. | | Nitrate (as NO3) | IS 3025 (Part 34 / Sec -1): 2023 |
| 17. | Drinking Water / Ground Water / RO Water | Odour | IS 3025 (Part 5):2018 |
| 18. | | pH value | IS 3025 (Part 11): 2022 |
| 19. | | Residual Free Chlorine | IS 3025 (Part 26): 2021 |
| 20. | | Sulphate (as SO4) | IS:3025(P-24/S-1)-2022 |
| 21. | | Taste | IS 3025 (Part 7): 2017 RA 2022 & IS 3025 (Part 8) : 2023 |
| 22. | | Total Dissolved Solids | IS 3025 (Part16) : 2023 |
| 23. | | Total Hardness (as CaCO3) | IS 3025 (Part 21) : 2009 RA 2023 |
| 24. | | Turbidity | IS 3025 (Part 10) : 2023 |

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| Chemical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Pollution and Environment** | | |
| 1. | Waste Water (STP, ETP, WWTP) | Bio-Chemical Oxygen Demand | IS 3025 (Part 44) :2023 |
| 2. | | Chemical Oxygen Demand | IS 3025 (Part 58):2023 |
| 3. | | Conductivity (at 25'C) | IS 3025 (Part 14) :2013 RA 2023 |
| 4. | | Oil & grease | IS 3025 (Part 39) :2021 |
| 5. | | pH | IS 3025 (Part 11):2022 |
| 6. | | Phosphorus (as P) | IS 3025 (Part 31/Sec 1): 2022 |
| 7. | | Potassium (as K) | IS 3025 (Part 45):2024 |
| 8. | | Sodium (as Na) | IS 3025 (Part 45) :2024 |
| 9. | | Total Dissolved Solids | IS 3025 (Part 16): 2023 |
| 10. | | Total Suspended Solids | IS 3025 (Part 17):2022 |

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| Chemical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Fire Fighting Equipment's & Accessories** | | |
| 1. | Foam Concentrate for Producing Mechanical Foam for Fire Fighting | Visual Examination | IS: 4989 - 2018 |
| 2. | | Freezing and Thawing | IS: 4989 - 2018 |
| 3. | | pH both original and ageing | IS: 4989 - 2018 |
| 4. | | Specific Gravity both original and ageing | IS: 4989 - 2018 |
| 5. | | Miscibility with distilled water | IS: 4989 - 2018 |
| 6. | | Viscosity | IS: 1206 (Part-3) 2021 |
| 7. | | Pour Point | IS: 4989 - 2018 |
| 8. | | Sludge content | IS: 4989 - 2018 |
| 9. | | Surface Tension | IS: 4989 - 2018 |
| 10. | | Spreading Coefficient | IS: 4989 - 2018 |
| 11. | | Expansion at 27±5°C | IS: 4989 - 2018 |
| 12. | | 25 % drainage time at 27±5°C | IS: 4989 - 2018 |
| 13. | | Fire test on hydrocarbon fires (non-polar) – Fire Control Time | IS: 4989 - 2018 |
| 14. | | Fire test on hydrocarbon fires (non-polar) – Fire Extinction Time | IS: 4989 - 2018 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Fire Fighting Equipment's & Accessories** | | |
| 15. | Foam Concentrate for Producing Mechanical Foam for Fire Fighting | Fire test on hydrocarbon fires (non-polar) – Seal ability/Film forming | IS: 4989 - 2018 |
| 16. | Foam Concentrate for Producing Mechanical Foam for Fire Fighting | Fire test on hydrocarbon fires (non-polar) – Burn back | IS: 4989 - 2018 |
| 17. | Dry Chemical Powders for Fire Fighting – BC, ABC and D Types | Main Chemical Constituent | IS: 4308 - 2018 |
| 18. | | Apparent density | IS: 4308 - 2019 |
| 19. | | Particle Size / Sieve Analysis | IS: 4308 - 2019 |
| 20. | | Hygroscopicity | IS: 4308 - 2019 |
| 21. | | Water Repellency | IS: 4308 - 2019 |
| 22. | | Moisture Content | IS: 4308 - 2019 |
| 23. | | Rate of Flow | IS: 4308 - 2019 |
| 24. | | Fire Test | IS: 4308 - 2019 |
| 25. | | Temperature Resistance Test | IS: 4308 - 2019 |
| 26. | | Colour | IS: 4308 - 2019 |

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| Chemical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Resin** | | |
| 1. | Injection Moulded PVC Fittings | Resistance to sulphuric acid | IS 12235 (Part 7):2004, RA 2019 |
| 2. | Injection Moulded PVC Fittings & PVC Pipes | Sulphated Ash Content | IS 14735: 1999, RA 2019<br>IS: 4985:2021 |
| 3. | Injection Moulded PVC Fittings & UPVC Pipes | Titanium Dioxide content | IS 14735: 1999, RA 2019<br>IS 15328: 2003, RA 2018 |
| 4. | Injection Moulded PVC Socket Fittings with Solvent Cement Joints & UPVC Pipe | Opacity test | IS 7834 (P-1): 1987, RA 2018<br>IS 12235 (Part 3): 2004, RA 2019 |
| 5. | Injection moulded PVC socket fittings with solvent cement joints | Effect On water- Other Toxic Substances (Hg, Cd) | IS 7834 (P-1) : 1987,<br>RA 2018 |
| 6. | Injection moulded pvc socket fittings with solvent cement joints | Effect on Water- Tin (Sn) | IS 7834 (P-1) : 1987,RA 2018 |
| 7. | Injection moulded pvc socket fittings with solvent cement joints | Effect on water-Lead | IS 7834 (P-1) : 1987, RA 2018 |
| 8. | PE Pipe & fittings, raw material, Resin | Carbon Black Masterbatch – Ash Content | IS 14333: 2022<br>IS 4984: 2016 RA 2021<br>IS: 17425: 2020 RA 2021 |

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| Chemical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Resin** | | |
| 9. | PE Pipe & fittings, raw material, Resin | PE Compound-<br>Pigment Dispersion | IS 14333: 2022<br>IS 4984: 2016 RA 2021<br>IS: 17425: 2020 RA 2021 |
| 10. | PE Pipe | PE Compound-<br>Resistant To gas Constituents | IS 14885: 2022 |
| 11. | PE Pipe & Geosynthetic Membranes | Susceptibility to<br>Environmental Stress Cracking | IS:12786: 2024<br>IS: 16352:2020 |
| 12. | PE Pipe & fittings, raw material, Resin | Toluene Extract in<br>Masterbatch/ Carbon Black | IS 14333: 2022<br>IS 4984: 2016 RA 2021<br>IS: 17425: 2020 RA 2021<br>IS:12786: 2024<br>IS:14885: 2022 |
| 13. | PE Pipe & fittings, raw material, Resin | Volatile Matter content | IS 4984: 2016 RA 2021<br>IS:14885: 2022 |
| 14. | PE Resin, Carbon Black Masterbatch | Ash Content % | IS 14333: 2022<br>IS 4984: 2016 RA 2021<br>IS: 17425: 2020 RA 2021 |
| 15. | PE Resin, Carbon Black Masterbatch | Maximum volatile matter % | IS 14333: 2022<br>IS 4984: 2016 RA 2021<br>IS: 17425: 2020 RA 2021 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Resin** | | |
| 16. | PE Resin, Carbon Black Masterbatch | Carbon black particle size % | IS 14333: 2022<br>IS 4984: 2016 RA 2021<br>IS: 17425: 2020 RA 2021 |
| 17. | Plastic Materials /Pipes / Containers /Sheets / Films | Polymer Identification | SOP/CHE-PI/00-CIPET |
| 18. | PP, PE, HDPE, LDPE, ABS, PC, PVC Compound | Ash Content in Plastic | ASTM D 5630: 1994<br>IS: 15225: 2002 RA 2024 |
| 19. | Resin, Plastic & polymer, Raw Material, Plastic Pipe, Geomembrane & Films | Carbon Black Content % | IS 2530: 1963, RA 2018 |
| 20. | | Carbon Black Dispersion | IS 2530: 1963, RA 2018 |
| 21. | | Volatile Matter | IS:4984: 2016 RA 2021<br>IS:14885: 2022 |
| 22. | | Water Content | IS:4984: 2016 RA 2021 |
| 23. | | Thermal Stability (Oxidation Induction Time) | IS:4984: 2016 RA 2021<br>IS:14885: 2022; ISO 11357 (Part-6)<br>ASTM D 5885 |
| 24. | UPVC Pipe | Effect of Sunlight | IS 12235 (Part-3): 2004, RA 2014 |
| 25. | UPVC Pipe & fittings | Ash Content % | IS 12235: 2004, RA 2019 |
| 26. | UPVC Pipe | K Value | IS 4669: 1968 RA 2018 |
| 27. | UPVC & PVC-O Pipe | Resistance to Di-Chloro methane | IS 12235 (Part 11): 2004, RA 2019 |

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| Chemical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Resin** | | |
| 28. | UPVC Pipe | Vicat Softening Temperature | IS 15328: 2003, RA 2018 |
| 29. | UPVC Pipe | Effect on Water -Cadmium (Cd) | IS 12235 (Part 4) : 2004, RA 2019 |
| 30. | UPVC Pipe | Effect on Water -Lead (Pb) | IS 12235 (Part 4 & 10): 2004, RA 2019 |
| 31. | UPVC Pipe | Effect on Water-Mercury (Hg) | IS 12235 (Part 4) : 2004, RA 2019 |
| 32. | UPVC Pipe | Effect on water- Tin (Sn) | IS 12235 (Part 4) : 2004, RA 2019 |
| 33. | UPVC Pipe | Effect on water- Other toxic substances such as 'di-n-octyl-tin- mass) s-s bis iso-octyl mercapto acetate' and 'butyl stearate' | IS 12235 (Part 4): 2004, RA 2019 |
| 34. | Aluminium Composite panel | Chemical Resistance | IS: 17682:2021; IS:2046 1995 RA 2020 |

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| Chemical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Metal & Alloy** | | |
| 1. | Mild Steel | Carbon | IS 228 (Part-1): 1987 RA 2018 |
| 2. | Mild Steel | Chromium | IS 228 (Part-6): 2024 / PTL/SOP/CHE/03 |
| 3. | Mild Steel | Copper | IS 228 (Part-15): 1992 RA 2019 / PTL/SOP/CHE/03 |
| 4. | Mild Steel | Manganese | IS 228 (Part-2): 2024 |
| 5. | Mild Steel | Molybdenum | IS 228 (Part-7): 1990 RA 2018 /PTL/SOP/CHE/03 |
| 6. | Mild Steel | Nickel | IS 228 (Part-5): 1987 RA 2023 / PTL/SOP/CHE/03 |
| 7. | Mild Steel | Phosphorus | IS 228 (Part-3): 2024 |
| 8. | Mild Steel | Silicon | IS 228 (Part-8): 1989 RA 2023 |
| 9. | Mild Steel | Sulphur | IS 228 (Part-9): 1989 RA 2023 |
| 10. | Mild Steel | Manganese | IS 228 (Part-2): 2024 |
| 11. | Mild Steel | Aluminium | PTL/SOP/CHE/03 |

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| Chemical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Metal & Alloy** | | |
| 12. | Mild Steel | Boron | PTL/SOP/CHE/03 |
| 13. | Mild Steel | Cadmium | PTL/SOP/CHE/03 |
| 14. | Mild Steel | Carbon Equivalent (CE) | IS 1786: 2008 RA 2018 |
| 15. | Mild Steel | Carbon Equivalent (CE) | IS 2062:2011, RA 2021 |
| 16. | Mild Steel | Niobium | PTL/SOP/CHE/03 |
| 17. | Mild Steel | Tin | PTL/SOP/CHE/03 |
| 18. | Mild Steel | Itanium | PTL/SOP/CHE/03 |
| 19. | Mild Steel | Vanadium | PTL/SOP/CHE/03 |
| 20. | Mild Steel | Nitrogen | IS: 228 (Part-19): 1998 RA 2021 |
| 21. | Stainless Steel | Carbon | IS 228 (Part-1): 1987 RA 2018 |
| 22. | Stainless Steel | Chromium | IS 228 (Part6): 1987 RA 2018 |
| 23. | Stainless Steel | Manganese | IS 228 (Part-2): 2024 |
| 24. | Stainless Steel | Molybdenum | IS 228 (Part-7): 1990 RA 2018 /PTL/SOP/CHE/04 |
| 25. | Stainless Steel | Nickel | IS 228 (Part-5): 1987 RA 2023 |
| 26. | Stainless Steel | Phosphorus | IS 228 (Part-3): 2024 |
| 27. | Stainless Steel | Silicon | IS 228 (Part-8): 1989 RA 2023 |
| 28. | Stainless Steel | Sulphur | IS 228 (Part-9): 1989 RA 2023 |

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| Chemical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Metal & Alloy** | | |
| 29. | Stainless Steel | Copper | PTL/SOP/CHE/04 |
| 30. | Stainless Steel | Nitrogen | IS: 228 (Part-19): 1998 RA 2021 |
| 31. | Aluminium its Alloys and Products | Manganese | IS 504: 1963 RA 2023 |
| 32. | Aluminium its Alloys and Products | Boron | PTL/SOP/CHE/01 |
| 33. | Aluminium its Alloys and Products | Iron | PTL/SOP/CHE/01 |
| 34. | Aluminium its Alloys and Products | Magnesium | PTL/SOP/CHE/01/ IS 504: 1963, RA 2023 |
| 35. | Aluminium its Alloys and Products | Zinc | PTL/SOP/CHE/01 |
| 36. | Aluminium its Alloys and Products | Chromium | PTL/SOP/CHE/01 |
| 37. | Aluminium its Alloys and Products | Lead | PTL/SOP/CHE/01 |
| 38. | Aluminium its Alloys and Products | VANADIUM | PTL/SOP/CHE/01 |
| 39. | Aluminium its Alloys and Products | Aluminium | IS 737: 2024/ IS 504: 1963 RA 2023 / IS 1285: 2023 |
| 40. | Aluminium its Alloys and Products | Copper | PTL/SOP/CHE/01 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Metal & Alloy** | | |
| 41. | Aluminium its Alloys and Products | Manganese | PTL/SOP/CHE/01 |
| 42. | Aluminium its Alloys and Products | Silicon | IS 504: 1963 RA 2023 |
| 43. | Aluminium its Alloys and Products | Titanium | PTL/SOP/CHE/01 |
| 44. | Copper and Its Alloys (Leaded Brass Copper and Bronze) | Bismuth | PTL/SOP/CHE/01 |
| 45. | | Copper | IS 440: 1964, RA 2018 |
| 46. | Copper and Its Alloys (Leaded Brass Copper and Bronze) | Copper Purity Test | IS 191: 2007 RA 2021 |
| 47. | | Phosphorus | IS 440: 1964, RA 2018 |
| 48. | | Selenium | PTL/SOP/CHE/02 |
| 49. | | Silver | PTL/SOP/CHE/02 |
| 50. | | Oxygen | IS: 440: 1964 RA 2018 |
| 51. | | Aluminium | PTL/SOP/CHE/02 |
| 52. | | Arsenic | PTL/SOP/CHE/02 |
| 53. | | Lead | PTL/SOP/CHE/02 / IS 3685: 1966, RA 2018 |
| 54. | | Manganese | PTL/SOP/CHE/02 |
| 55. | | Nickel | IS 3685: 1966, RA 2018 / PTL/SOP/CHE/02 |
| 56. | | Tin | IS 3685 : 1966, RA 2018 |

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| Chemical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Metal & Alloy** | | |
| 57. | | Zinc | IS 3685 : 1966, RA 2018 |
| 58. | Copper and Its Aloys (Leaded Brass Copper and Bronze) | Antimony | PTL/SOP/CHE/02 |
| 59. | | Iron | PTL/SOP/CHE/02 |
| 60. | | Sulphur | PTL/SOP/CHE/02 |
| 61. | | Tellurium | ITL/SOP/CHE/02 |
| 62. | Ferrous & Non-Ferrous metals | Thickness of Anodic Coating | IS 5523: 1983 RA 2021 |
| 63. | Steel Products | Mass of Zinc Coating | IS 6745: 1972 RA 2021 |
| 64. | Steel Products | Uniformity of Zinc Coating | IS 2633: 1986 RA 2021 |

| Chemical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building, Infrastructure & Construction Material** | | |
| 1. | Cement | Calcium Oxide | IS 4032: 1985 (RA 2019) |
| 2. | Cement | Magnesium Oxide | IS 4032: 1985 (RA 2019) |
| 3. | Cement | Sulphur as $SO_3$ | IS 4032: 1985 (RA 2019) |
| 4. | Cement | Loss on Ignition | IS 4032: 1985 (RA 2019) |
| 5. | Cement | Silica as $SiO_2$ | IS 4032: 1985 (RA 2019) |
| 6. | Cement | Chloride as Cl | IS 4032: 1985 (RA 2019) |
| 7. | Cement | Iron as $Fe_2O_3$ | IS 4032: 1985 (RA 2019) |

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| Chemical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building, Infrastructure & Construction Material** | | |
| 8. | Cement | Aluminium as $Al_2O_3$ | IS 4032: 1985 (RA 2019) |
| 9. | Cement | Insoluble Residue | IS 4032: 1985 (RA 2019) |
| 10. | Cement | Alkali Content | IS:4032-1985, RA 2019 |
| 11. | Concrete Admixture | Dry Material Content | IS 9103: 1999 (RA 2018) |
| 12. | Concrete Admixture | Ash Content | IS 9103: 1999 (RA 2018) |
| 13. | Concrete Admixture | Relative Density | IS 9103: 1999 (RA 2018) |
| 14. | Concrete Admixture | Chloride Content | IS 6925: 1973 (RA 2018) |
| 15. | Concrete Admixture | pH | IS 9103: 1999 (RA 2018) |
| 16. | Ceramics Tile (Glazed/ Unglazed/ Vitrified) | Resistance to Staining | IS :13630- Part 8 2019 |
| 17. | Ceramics Tile (Glazed/ Unglazed/ Vitrified) | Resistance to household chemical | IS :13630- Part 8 2019 |
| 18. | Ceramics Tile (Glazed/ Unglazed/ Vitrified) | Resistance to acid/alkali | IS :13630- Part 8 2019 |
| 19. | Hardened Concrete | Chloride | BS 1881 (P-124): 2015 / BS 812 (P-117): 1988 |
| 20. | Hardened Concrete | Potassium Oxide | BS1881 (P-124): 2015 |
| 21. | Hardened Concrete | Chloride | BS 1881 (P-124): 2015 / BS 812 (P-117): 1988 |

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| Chemical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building, Infrastructure & Construction Material** | | |
| 22. | Hardened Concrete | Ratio of Ingredients | ASTM C-1084: 2019 / IS 516(P-11) 2020 / IS 1199: 2018 |
| 23. | Hardened Concrete | Sodium Oxide | BS 1881 (P-124): 2015 |
| 24. | Hardened Concrete | Sulphate | BS 812 (P-118): 1988 / BS 1881 (P-124): 2015 |
| 25. | Mortar | Chloride | BS 1881 (P-124):2015 |
| 26. | Mortar | Ratio of Ingredients | IS 516(P-11) 2020 / IS 1199 : 2018 |
| 27. | Mortar | Sulphate | BS 1881 (P-124):2015 |
| 28. | Building Lime | Available lime as CaO (Dry Basis) | IS: 1514 1990 (RA 2024) |
| 29. | Building Lime | Calcium and Magnesium oxides (on ignited basis) | IS: 6932(P-1): 1973 RA 2019 |
| 30. | Building Lime | Carbon dioxide (on Oven Dry basis) | IS: 6932(P-1): 1973 RA 2019 |
| 31. | Building Lime | Free Moisture content | IS: 1514: 1990 RA 2024 |
| 32. | Building Lime | Insoluble residue in dilute acid and alkali (on ignited basis) | IS: 6932(P-1): 1973 RA 2019 |
| 33. | Building Lime | Magnesium oxides (on ignited basis) | IS: 6932(P-1): 1973 RA 2019 |
| 34. | Building Lime | Silica, Alumina and Ferric oxide (on ignited basis) | IS: 6932(P-1): 1973 RA 2019 |

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| Chemical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building, Infrastructure & Construction Material** | | |
| 35. | Building Lime | Unhydrated Magnesium oxide (on ignited basis) | IS: 6932(P-1): 1973 RA 2019 |
| 36. | Aggregates (Coarse/Fine) Graded, Single, All in one, Key Stone Metal, Ballast & Boulder | Alkali Aggregate Reactivity – Dissolved Silica | IS 2386 (P-7) : 1963, RA 2021 |
| 37. | Aggregates (Coarse/Fine) Graded, Single, All in one, Key Stone Metal, Ballast & Boulder | Alkali aggregate Reactivity – Reduction in alkalinity | IS 2386 (P-7) : 1963, RA 2021 |
| 38. | | Alkali aggregate Reactivity - Nature of Aggregate | IS 2386 (P-7) : 1963, RA 2021 |
| 39. | | Water Soluble Chloride Content as Cl | IS: 14959 (P-2): 2001, RA 2021 |
| 40. | | Total Sulphate Content as $SO_3$ | IS: 4032-1985, RA 2019 |
| 41. | Aggregates (Fine) Crushed Stone Sand, Natural Sand, Crushed Gravel Sand, Binding & Screening Material, Mixed Sand & Manufactured Sand | Alkali aggregate Reactivity- Reduction in alkalinity | IS 2386 (P-7) : 1963, RA 2021 |
| 42. | | Alkali aggregate Reactivity- Dissolved Silica | IS 2386 (P-7) : 1963, RA 2021 |
| 43. | | Alkali aggregate Reactivity - Nature of Aggregate | IS 2386 (P-7) : 1963, RA 2021 |
| 44. | | Water Soluble Chloride Content as Cl | IS: 14959 (P-2): 2001, RA 2021 |
| 45. | | Total Sulphate Content as $SO_3$ | IS: 4032-1985, RA 2019 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building, Infrastructure & Construction Material** | | |
| 46. | Bentonite | pH | IS 6186 : 1986 RA 2024 |
| 47. | Fly Ash | Silica | IS 1727 : 1967, RA 2018 |
| 48. | Fly Ash | Alumina | IS 1727 : 1967, RA 2018 |
| 49. | Fly Ash | Available Alkalies as $Na_2O$ | IS:4032-1985, RA 2019 & IS:3812 (P-1)-2013, RA 2022 |
| 50. | Fly Ash | Calcium Oxide | IS 1727: 1967, RA 2018 |
| 51. | Fly Ash | Iron Oxide | IS 1727: 1967, RA 2018 |
| 52. | Fly Ash | Loss on Ignition | IS 1727: 1967, RA 2018 |
| 53. | Fly Ash | Magnesium Oxide | IS 1727: 1967, RA 2018 |
| 54. | Fly Ash | Moisture | IS 3812 (P-1) : 2013, RA 2022 |
| 55. | Fly Ash | Total Chlorides | IS 4032: 1985, RA2019 |
| 56. | Fly Ash | Total Sulphur | IS 1727: 1967, RA 2018 |
| 57. | Silica Fume / Micro Silica | Loss on Ignition | IS 1727 : 1967, RA 2018 |
| 58. | Silica Fume / Micro Silica | Moisture | IS 15388 : 2003, RA 2022 |
| 59. | Silica Fume / Micro Silica | Silica (SIO2%/Mass) | IS 1727 : 1967, RA 2018 |
| 60. | Silica Fume / Micro Silica | Total Alkalies ($Na_2O$) | IS 4032 : 1985, RA 2019 |
| 61. | Plaster of Paris or Gypsum Building Plaster | Calcium Oxide | IS 1288 : 1982, RA 2021 |

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| Chemical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building, Infrastructure & Construction Material** | | |
| 62. | Plaster of Paris or Gypsum Building Plaster | Loss On Ignition | IS 2547 (P-1) : 1976 RA 2022 |
| 63. | Plaster of Paris or Gypsum Building Plaster | Soluble Magnesium salt as MgO | IS 2547 (P-1) : 1976 RA 2022 |
| 64. | Plaster of Paris or Gypsum Building Plaster | Sulphur Trioxide | IS 2547 (P-1) : 1976 RA 2022 |
| 65. | Curing Compound | Water Retention properties | ASTM C 156 |
| 66. | Curing Compound | Drying time Requirements | ASTM C 309 |
| 67. | Curing Compound | Volatile Organic Content | ASTM D 3960 |
| 68. | Curing Compound | Reflectance | ASTM E 1347 |
| 69. | Curing Compound | Relative Density at 30°C | ASTM D 1475 |
| 70. | Curing Compound | Non-Volatile Matter | ASTM D2369 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 1. | Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe) | Visual Appearance, finish and colour | IS:16098 (Part-2) 2013 RA 2022 |
| 2. | Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe) | Physical characteristics of PE/PP pipes (Resistance to heating, oven test) | IS:12235 (Part-6) 2004 RA 2019 |
| 3. | Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe) | Physical characteristics of PE/PP injection moulded components (Effect of heating) | IS 16098 (Part-1) : 2013 RA 2022<br>IS:12235 (Part-6) 2004 RA 2019 |
| 4. | Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe) | Ring stiffness | IS 16098 (Part-1) : 2013 RA 2022 |
| 5. | Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe) | Impact strength | IS:12235 (Part-9) 2004 RA 2019 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 6. | Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe) | Ring flexibility | IS:16098 (Part-1):2013 RA 2022 |
| 7. | Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe) | Performance requirements (Tightness of elastomeric seal joint) | IS:12235 (Part-8/Sec-2 & Sec-3) 2004 RA 2019 |
| 8. | Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe) | Water tightness | IS:16098 (P-2): 2013 RA 2022 |
| 9. | Rotational Moulded Polyethylene Water Storage Tanks | Dimension Of Tank- Internal Dia of Manhole | IS 12701: 1996 RA 2021 |
| 10. | Rotational Moulded Polyethylene Water Storage Tanks | Dimension of tank- wall and bottom thickness | IS 12701: 1996 RA 2021 |
| 11. | Rotational moulded polyethylene water storage tanks | Dimension of tank- weight of tank | IS 12701: 1996 RA 2021 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 12. | Rotational moulded polyethylene water storage tanks | Finish | IS 12701: 1996 RA 2021 |
| 13. | Rotational moulded polyethylene water storage tanks | Flexural modulus | IS 13360 P-5/SEC 7: 2022 |
| 14. | Rotational moulded polyethylene water storage tanks | Resistance to deformation | IS 12701: 1996 RA 2021 |
| 15. | Rotational moulded polyethylene water storage tanks | Resistance to impact | IS 12701: 1996 RA 2021 |
| 16. | Rotational moulded polyethylene water storage tanks | Tensile strength | IS 12701: 1996 RA 2021 |
| 17. | Rotational moulded polyethylene water storage tanks | Test for top load resistance | IS 12701: 1996 RA 2022 |
| 18. | HDPE pipe | Identification of strips | IS:4984: 2016 RA 2021 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 19. | HDPE pipe | Elongation at Break | IS 14333: 2022<br>IS 4984: 2016 RA 2021<br>IS: 17425: 2020<br>IS:12786: 2024<br>IS:14885: 2022<br>IS:14151(P-1):1999 RA 2021<br>IS:14151(P-2):2008 RA 2021 |
| 20. | HDPE PIPE | Internal Pressure Creep Rupture Test of Pipe Joints | IS:4984: 2016 RA 2021<br>IS 14333: 2022 |
| 21. | HDPE PIPE | Length | IS 14333: 2022<br>IS 4984: 2016 RA 2021<br>IS: 17425: 2020<br>IS:12786: 2024<br>IS:14885: 2022<br>IS:14151(P-1):1999 RA 2021 |
| 22. | HDPE Pipe | Reversion Test | IS 14333: 2022<br>IS 4984: 2016 RA 2021<br>IS: 17425: 2020<br>IS:12786: 2024<br>IS:14885: 2022<br>IS:14151(P-1):1999 RA 2021<br>IS:14151(P-2):2008 RA 2021 |
| 23. | HDPE PIPE | Slow Crack Growth rate | IS:4984: 2016 RA 2021 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 24. | HDPE PIPE | Tensile Strength for Butt-fusion | IS:4984: 2016 RA 2021 |
| 25. | HDPE Pipe | Visual Appearance/ Colour | IS 14333: 2022<br>IS 4984: 2016 RA 2021<br>IS: 14885 : 2022 |
| 26. | HDPE Pipe | Wall Thickness | IS 14333: 2022<br>IS 4984: 2016 RA 2021<br>IS: 17425: 2020<br>IS:12786: 2024<br>IS:14885: 2022<br>IS:14151(P-1):1999 RA 2021<br>IS:14151(P-2):2008 RA 2021 |
| 27. | HDPE Pipe & Fittings | Density | IS 7328: 2020 |
| 28. | HDPE Pipe & Fittings | Melt flow rate | IS: 2530:1963 RA 2018 |
| 29. | HDPE Pipe & Fittings | Dimensions-Diameter | IS 14333: 2022; IS 4984: 2016 RA 2021; IS: 17425: 2020; IS:12786: 2024; IS:14885: 2022; IS:14151(P-1):1999 RA 2021; IS:14151(P-2):2008 RA 2021 |
| 30. | HDPE Pipe & Fittings | Overall Migration | IS 9845: 1998 RA 2020<br>IS: 10146:1982 RA 2018 |
| 31. | HDPE Pipe & Fittings | Overall Migration | IS 9845: 1998 RA 2020<br>IS: 10146:1982 RA 2018 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 32. | HDPE Pipe & Fittings, QCPE Pipe | Tensile Strength | IS 4984: 2016 RA 2021<br>IS:12786: 2024<br>IS:14885: 2022<br>IS: 17425: 2020 |
| 33. | Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems | Fusion Compatibility Test (Quality test and Acceptance test) | IS: 17425: 2020 |
| 34. | Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems | Holding attachment of coupler part | IS: 17425: 2020 |
| 35. | Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems | Hydraulic Performance Characteristics (Quality Test and Acceptance test) | IS: 17425: 2020 |
| 36. | Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems | Hydraulic Proof Test | IS: 17425: 2020 |
| 37. | Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems | Leakage test | IS: 17425: 2020 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 38. | Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems | Out of Roundness (Ovality) | IS: 17425: 2020 |
| 39. | Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems | Rubber Ring | IS 17425: 2020 |
| 40. | Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems | Visual Appearance and colour and Workmanship | IS: 17425: 2020 |
| 41. | Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems | Weldability Test (Quality Test and Acceptance Test) | IS: 17425: 2020 |
| 42. | Holding attachments | Thickness of the zinc electroplating | IS:1573-1986 RA 2021 |
| 43. | PE Pipe | Finish | IS 14885: 2022 |
| 44. | PE Pipe | Hydraulic Characteristics | IS 14885: 2022 |
| 45. | PE Pipe | Resistance To Weathering | IS 14885: 2022 |
| 46. | PE Pipes for Water Supply | Out of square of pipe end | IS: 4984: 2016 RA 2021 |
| 47. | PE Pipes for Water Supply | Yield Stress | IS: 4984: 2016 RA 2021 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 48. | Irrigation Equipment Emitting Pipe systems | Dimensions | IS: 13488:2008 RA 2021 |
| 49. | Irrigation Equipment Emitting Pipe systems | Resistance to Hydrostatic pressure at Ambient temperature | IS: 13488:2008 RA 2021 |
| 50. | Irrigation Equipment Emitting Pipe systems | Resistance to Hydrostatic pressure at Elevated temperature | IS: 13488:2008 RA 2021 |
| 51. | UPVC Door/ Frame/Profile/ Sheet | Density at 27°C | ASTM D792 / IS: 17953-2023 |
| 52. | UPVC Door/ Frame/Profile/ Sheet | Tensile Modulus (Modulus of Elasticity) | ASTM D638 / EN ISO 178 / IS: 13360 (P-5/S-7) 2022 |
| 53. | UPVC Door/ Frame/Profile/ Sheet | Impact Strength (Charpy Unnotched) | ASTM D256 / EN ISO 179-2 / IS: 13360 (P-5/S-5) 2017 RA 2022 |
| 54. | UPVC Door/ Frame/Profile/ Sheet | Durometer Hardness | DIN 53505 |
| 55. | UPVC Door/ Frame/Profile/ Sheet | Vicat Softening Point | ASTM D1525 / EN ISO 306 / IS: 13360 (P-6/S-1) 2018 |
| 56. | UPVC Door /Frame/Profile/ Sheet/Plastic Material | Flammability | UL94 |
| 57. | UPVC Door/ Frame/Profile/ Sheet | Calcium carbonate | IS: 14735-1999 RA 2019 |
| 58. | UPVC Door/ Frame/Profile/ Sheet | Dimensions and tolerances | IS: 17953:2023 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 59. | UPVC Door/ Frame/Profile/ Sheet | Appearance | IS: 17953:2023 |
| 60. | UPVC Door/ Frame/Profile/ Sheet | Mass of profile | IS: 17953:2023 |
| 61. | UPVC Door/Frame/Profile/ Sheet | Resistance to impact of falling mass | IS: 17953:2023 (Annex-D) |
| 62. | UPVC Door/Frame/Profile/ Sheet | Heat ageing at 150°C | IS: 17953:2023 (Annex-E) |
| 63. | UPVC Door/Frame/Profile/ Sheet | Heat reversion | IS: 17953:2023 (Annex-C) |
| 64. | UPVC Pipe | Dimension of Socket - Socket Length | IS:4985: 2021 |
| 65. | UPVC Pipe | Dimension of Socket Internal diameter | IS:4985: 2021 |
| 66. | UPVC & CPVC & PPR Pipe | Length | IS:4985: 2021; IS:12818: 2010 RA 2021; IS: 13592:2013 RA 2018<br>IS: 15328:2003 RA 2018<br>IS: 15778:2007 RA 2022<br>IS: 15801: 2008 RA 2022<br>IS: 16647:2017 RA 2022 |
| 67. | UPVC Pipe & PVC-O Pipe | Resistance to external Blow at 0 Degree C | IS 12235 (Part 9): 2004 RA 2019 |
| 68. | UPVC Pipe | Resistance to External Blows | IS 15328: 2003 RA 2018 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 69. | UPVC Pipe | Resistance to Internal Hydrostatic Pressure Test | IS 12235 (Part 8/Sec-1): 2004 RA 2019 |
| 70. | UPVC Pipe | Ring Stiffness | IS 15328: 2003 RA 2018 |
| 71. | UPVC Pipe | Stress Relief Test | IS 12235 (Part 6): 2004 RA 2019 |
| 72. | UPVC Screen and casing Pipe | Colour | IS 12818: 2010 RA 2021 |
| 73. | UPVC Screen and casing Pipe | Internal Diameter | IS 12818: 2010 RA 2021 |
| 74. | UPVC Screen and casing Pipe | Resistance to External Blows | IS 12818: 2010 RA 2021 |
| 75. | UPVC Screen and casing Pipe | Threading of Screen and Casing Pipe | IS 12818: 2010 RA 2021 |
| 76. | UPVC Screen and Casing Pipe | visual appearance | IS 12818: 2010 RA 2021 |
| 77. | Injection Moulded PVC Socket Fittings with Solvent Cement Joints | Short Term Hydraulic Pressure test | IS:7834 (P-1): 1987 RA 2018 |
| 78. | PPR Pipe | Melt Flow Rate | IS: 13360 (P- 4/ S-1/Subsec-1): 2000 RA 2018 |
| 79. | Resin, Plastic & polymer, Raw Material, Plastic Pipes, CPVC & UPVC Pipes | Appearance | IS: 15225: 2002 RA 2024 |
| 80. | Resin, Plastic & polymer, Raw Material, Plastic Pipes, CPVC & UPVC Pipes | Charpy Impact Strength | IS: 13360 (Part-5 / Sec-5): 2017 RA 2022 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 81. | Resin, Plastic & polymer, Raw Material, Plastic Pipes, CPVC & UPVC Pipes | Form | IS: 15225: 2002 RA 2024 |
| 82. | Resin, Plastic & polymer, Raw Material, Plastic Pipes, CPVC & UPVC & PVC -O Pipes | Vicat Softening Temperature | IS: 13360 (Part-6 / Sec-1): 2018<br>IS:12235 (Part-2):2004 RA 2019 |
| 83. | UPVC Pipe | Dimension of Socket - Outside Diameter | IS:13592: 2013 RA 2018 |
| 84. | UPVC Pipe | Colour of Pipe | IS:13592: 2013 RA 2018 |
| 85. | UPVC Pipe | Dimension of Socket - Wall Thickness | IS:13592: 2013 RA 2018 |
| 86. | UPVC Pipe | Hydrostatic Characteristic -Type Test & Acceptance Test) | IS:4985: 2021 |
| 87. | UPVC Pipe | Resistance To external Blows at 0°C | IS:4985: 2021 |
| 88. | UPVC Pipe | Visual appearance | IS:13592: 2013 RA 2018 |
| 89. | UPVC/CPVC Pipes & Fittings | Flattening Test | ASTM D1758 / IS 15778: 2007 RA 2022 |
| 90. | CPVC Fittings for Potable Hot and Cold-Water Distribution Supplies | Socket Length | IS: 17546: 2021 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 91. | CPVC Pipe & Fittings for Potable Hot and Cold-Water Distribution Supplies | Thermal Stability by Hydrostatic Pressure Test | IS: 12235 (Part-8/Sec-1): 2004 RA 2019 |
| 92. | UPVC/ CPVC Pipe & Fittings | Reversion Test | IS 12235 (Part 5/6): 2004 RA 2019 |
| 93. | UPVC/ CPVC Pipe & Fittings | Sustained Pressure Test / Burst Test | ASTM D1785 / 1983 ASTM D1598 / ASTM D1599 |
| 94. | CPVC Pipe & Fittings/ PPR Pipe | Specific Gravity | IS 12235 (Part 14): 2004 RA 2019 |
| 95. | UPVC & UPVC-O & CPVC Pipe & Fittings | Tensile Strength | IS 12235 (Part 13): 2004 RA 2019 |
| 96. | CPVC Pipe & Fittings | Visual Appearance /Colour | IS 15778: 2007 RA 2022 |
| 97. | PPR Pipe | Density | IS 12235 (Part 14): 2004 RA 2019 |
| 98. | PPR Pipe | Dimensions-Outside Diameter | IS 12235 (Part 1): 2004 RA 2019 |
| 99. | PPR Pipe | Visual Appearance/ Colour | IS 15801: 2008 RA 2022 |
| 100. | PPR Pipe | Wall Thickness | IS 12335 (Part 1): 2004 RA 2019 |
| 101. | UPVC Injection Moulded Fittings | Champher | IS 14735: 1999 RA 2019 |
| 102. | | Colour | IS 14735: 1999 RA 2019 |
| 103. | | Dimension- mean diameter (inside & outside) of socket at mid point | IS 14735: 1999 RA 2019 |
| 104. | | Dimensions- wall thickness | IS 14735: 1999 RA 2019 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 105. | | Impact test (drop test) | IS 14735: 1999 RA 2019 |
| 106. | | Stress Relief Test | IS 12235 (Part 6): 2004 RA 2019 |
| 107. | | Vicat Softening | IS 6307: 2023 |
| 108. | | Visual Appearance | IS 14735: 1999 RA 2019 |
| 109. | | Water tightness of joint | IS 14735: 1999 RA 2019 |
| 110. | UPVC Pipe | Appearance | IS 15328: 2003 RA 2018 |
| 111. | | Axial shrinkage | IS 15328: 2003 RA 2018 |
| 112. | | Colour | IS 15328: 2003 RA 2018 |
| 113. | UPVC Pipe | Elastomeric Sealing ring/Solvent Cemented Joint Internal Hydrostatic Pressure Test | IS 15328: 2003 RA 2018 |
| 114. | UPVC Pipe | Elastomeric sealing Ring/Solvent Cemented Joints Internal negative hydrostatic pressure Test | IS 15328: 2003 RA 2018 |
| 115. | UPVC Pipe | Elastomeric Sealing Rings Dimension Wall Thickness | IS 15328: 2003 RA 2018 |
| 116. | UPVC Pipe | Resistance To External Blows at 0 Deg. C | IS 12235 (Part 9): 2004 RA 2019 |
| 117. | UPVC Pipe | Resistance to external blows at 0 degree | IS 15328: 2003 RA 2018 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 118. | UPVC Pipe & PVC-O Pipe | Ring stiffness | IS 15328: 2003 RA 2018<br>IS:12235 (Part-18):2004 RA 2019 |
| 119. | UPVC Pipe | Water Tightness of Joint | IS:13592: 2013 RA 2018 |
| 120. | UPVC Pipe & Fittings | Density | IS 12335 (Part 14): 2004 RA 2019 |
| 121. | UPVC Pipe & Fittings / CPVC Pipe & Fittings | Dimensions- Diameter | IS 12235 (Part 1): 2004 RA 2019 |
| 122. | UPVC Pipe & Fittings | Elongation % | IS 12235 (Part 13): 2004 RA 2019 |
| 123. | UPVC Pipe & Fittings | Specific Gravity | IS 12335 (Part 14): 2004 RA 2019 |
| 124. | UPVC Pipe & Fittings | Visual Appearance/ Colour | IS 4985: 2021 |
| 125. | UPVC Pipe & Fittings / CPVC Pipe & Fittings | Wall Thickness | IS 12235 (Part 1): 2004 |
| 126. | UPVC Pipes for Water Supplies | Pipe Ends | IS: 4985: 2021 |
| 127. | Oriented Unplasticized Polyvinyl (PVC-O) Pipes for water Supply | Visual Appearance/ Colour | IS: 16647:2017 RA 2022 |
| 128. | Oriented Unplasticized Polyvinyl (PVC-O) Pipes for water Supply | Dimensions of pipe | IS: 16647:2017 RA 2022 |
| 129. | Oriented Unplasticized Polyvinyl (PVC-O) Pipes for water Supply | Pipe Ends | IS: 16647:2017 RA 2022 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 130. | Oriented Unplasticized Polyvinyl (PVC-O) Pipes for water Supply | Resistance to hydrostatic pressure | IS 16462: 2016 RA 2021<br>ISO 9080 2016 |
| 131. | PVC Water Stopper | Accelerated Extraction Test | IS 15058: 2002 RA 2019 |
| 132. | PVC Water Stopper | Cold Bend Temperature | IS 9766: 1992 RA 2018 |
| 133. | PVC Water Stopper & PE Film and sheet | Elongation | IS 13360 (P-5/Sec. 1): 2021<br>IS 13360 (P-5/Sec. 2): 2017 RA 2022<br>IS 13360 (P-5/Sec. 3):2022 |
| 134. | PVC Water Stopper | Hardness | IS 13360 (P -5/ Sec. 11): 2013 RA 2018 |
| 135. | PVC Water Stopper | Stability in Effect of Alkalise Test-Change in Dimension | IS:15058: 2002 RA 2019 |
| 136. | PVC Water Stopper | Stability in Effect of Alkalise Test-Weight Increase/ Decrease after 7/28 days | IS:15058: 2002 RA 2019 |
| 137. | PVC Water Stopper | Water Absorption | IS:15058: 2002 RA 2019 |
| 138. | PVC Water Stopper & PE Film and sheet | Tensile Strength | IS 13360 (P-5/Sec. 1): 2021<br>IS 13360 (P-5/Sec. 2): 2017 RA 2022<br>IS 13360 (P-5/Sec. 3):2022 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 139. | Aluminium Composite panel & PE Film and sheet | Density of core & Density | IS 13360 (Part-3/Sec-10): 2021 IS 13360 (Part-3/Sec-11): 2021 IS 13360 (Part-3 / Sec-12): 2016 RA 2021 |
| 140. | Aluminium Composite panel | Tensile strength & Yield strength | IS:1608 (Part-1) 2022 |
| 141. | Aluminium Composite panel | Elongation | IS:1608 (Part-1): 2022 |
| 142. | Aluminium Composite panel | Coating thickness | IS: 6012:1992 RA 2021 |
| 143. | Aluminium Composite panel | Adhesion | IS:101 (Part-5/Sec-2) 1988 RA 2019 |
| 144. | Aluminium Composite panel | Pencil Hardness | IS:101 (Part-5/Sec-1) 1988 RA 2019 |
| 145. | Aluminium Composite panel | Gloss | By Glossmeter |
| 146. | Conduit system for cable Management | Dimensions | IS:16205 (Part-24):2017 |
| 147. | Conduit system for cable Management | Compression test | IS:16205 (Part-24):2017 |
| 148. | Conduit system for cable Management | Impact test | IS:16205 (Part-24):2017 |
| 149. | Conduit system for cable Management | Bending test | IS:16205 (Part-24):2017 |
| 150. | PVC Geomembranes for Lining | Length and width | IS: 15909:2020 |
| 151. | PVC Geomembranes for Lining | Thickness | IS: 15909:2020 IS 3464: 1986 RA 2022 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 152. | PVC Geomembranes for Lining | Specific gravity | IS 2076: 1981 RA 2018 |
| 153. | PVC Geomembranes for Lining | Tensile strength (Longitudinal and transverse) | IS 2076: 1981 RA 2018 |
| 154. | PVC Geomembranes for Lining | Elongation at break (Longitudinal and transverse) | IS 2076: 1981 RA 2018 |
| 155. | PVC / HDPE Geomembranes for Lining | Tear strength | IS: 15909:2020<br>IS: 16352:2020 |
| 156. | PVC Geomembranes for Lining | Index puncture resistance | IS: 15909:2020 |
| 157. | PVC / HDPE Geomembranes for Lining | Low temperature crack resistance & Cold crack resistance at low temperature | IS: 15909:2020<br>IS: 16352:2020 |
| 158. | PVC / HDPE Geomembranes for Lining | Hydrostatic resistance & Hydrostatic pressure resistance | IS: 15909:2020<br>IS: 16352:2020 |
| 159. | PVC / HDPE Geomembranes for Lining | Seam strength | IS: 15909:2020<br>IS: 16352:2020 |
| 160. | PVC Geomembranes for Lining | Volatile loss | IS 3464: 1986 RA 2022 |
| 161. | PVC Geomembranes for Lining | Water extraction | IS: 15909:2020 |
| 162. | PVC Geomembranes for Lining | Behaviour during perforation (Static puncture test) | IS:16078 2013 RA 2023 |
| 163. | PVC Geomembranes for Lining | Dimensional stability | IS: 15909:2020 |
| 164. | PVC Geomembranes for Lining | Change of dimensioning after heating | IS: 15909:2020 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 165. | High density Polyethylene Geomembranes for lining | Length and width | IS: 16352:2020<br>IS:7016 (Part-1/Sec-1): 2022 |
| 166. | High density Polyethylene Geomembranes for lining | Average thickness at a pressure | IS: 16352:2020<br>IS:13162 (Part-3): 2021 |
| 167. | High density Polyethylene Geomembranes for lining | Tensile properties, Yield strength, Breaking strength | IS: 16352:2020 |
| 168. | High density Polyethylene Geomembranes for lining | Tensile properties, Yield elongation, Breaking elongation | IS: 16352:2020 |
| 169. | High density Polyethylene Geomembranes for lining & PE films and sheets | Puncture resistance | IS: 16352:2020<br>IS: 2508:2024 |
| 170. | High density Polyethylene Geomembranes for lining | Oven Ageing | IS:7016 (P-8): 2023<br>ISO 11357-6<br>ASTM D 5885 : 1977 |
| 171. | First – Aid Hose-Reel for Fire Fighting | Dimensions | IS: 884:1985 RA 2020 |
| 172. | First – Aid Hose-Reel for Fire Fighting | Resistance to Leakage | IS: 884:1985 RA 2020 |
| 173. | First – Aid Hose-Reel for Fire Fighting | Impact Resistance Test | IS: 884:1985 RA 2020 |
| 174. | First – Aid Hose-Reel for Fire Fighting | Load Test | IS: 884:1985 RA 2020 |
| 175. | First – Aid Hose-Reel for Fire Fighting | Range and Water Flow Rate Test | IS: 884:1985 RA 2020 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 176. | First – Aid Hose-Reel for Fire Fighting | Marking | IS: 884:1985 RA 2020 |
| 177. | Controlled Percolating Hose for Fire Fighting | Diameter | IS 8423:1994 RA 2020 |
| 178. | Controlled Percolating Hose for Fire Fighting | Length | IS 8423:1994 RA 2020 |
| 179. | Controlled Percolating Hose for Fire Fighting | Coil Diameter | IS 8423:1994 RA 2020 |
| 180. | Controlled Percolating Hose for Fire Fighting | Mass/meter | IS 8423:1994 RA 2020 |
| 181. | Controlled Percolating Hose for Fire Fighting | Percolation | IS 8423:1994 RA 2020 |
| 182. | Controlled Percolating Hose for Fire Fighting | Evenness of Wetting out | IS 8423:1994 RA 2020 |
| 183. | Controlled Percolating Hose for Fire Fighting | Hydrostatic Proof Pressure Test | IS 443 (P-3):2023 |
| 184. | Controlled Percolating Hose for Fire Fighting | Hydrostatic Bursting pressure Test | IS 443 (P-3):2023 |
| 185. | Controlled Percolating Hose for Fire Fighting | Flammability | IS 8423:1994 RA 2020 |
| 186. | Controlled Percolating Hose for Fire Fighting | Kink Test | IS 8423:1994 RA 2020 |
| 187. | Controlled Percolating Hose for Fire Fighting | Change in Size | IS 8423:1994 RA 2020 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 188. | Controlled Percolating Hose for Fire Fighting | Marking | IS 8423:1994 RA 2020 |
| 189. | Non-Percolating Flexible Fire Fighting Delivery Hose | Workmanship | IS 636: 2018 RA 2024 |
| 190. | Non-Percolating Flexible Fire Fighting Delivery Hose | Internal diameter | IS 636: 2018 RA 2024 |
| 191. | Non-Percolating Flexible Fire Fighting Delivery Hose | Length | IS 636: 2018 RA 2024 |
| 192. | Non-Percolating Flexible Fire Fighting Delivery Hose | Mass | IS 636: 2018 RA 2024 |
| 193. | Non-Percolating Flexible Fire Fighting Delivery Hose | Coil Diameter | IS 636: 2018 RA 2024 |
| 194. | Non-Percolating Flexible Fire Fighting Delivery Hose | Hydrostatic Proof Pressure | IS 443 (P-3):2023 |
| 195. | Non-Percolating Flexible Fire Fighting Delivery Hose | Hydrostatic Burst Pressure | IS 443 (P-3): 2023 |
| 196. | Non-Percolating Flexible Fire Fighting Delivery Hose | Kink Test | IS 636: 2018 RA 2024 |
| 197. | Non-Percolating Flexible Fire Fighting Delivery Hose | Change in Length | IS 636: 2018 RA 2024 |
| 198. | Non-Percolating Flexible Fire Fighting Delivery Hose | Change in diameter | IS 636: 2018 RA 2024 |
| 199. | Non-Percolating Flexible Fire Fighting Delivery Hose | Adhesion | IS 636: 2018 RA 2024 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 200. | Non-Percolating Flexible Fire Fighting Delivery Hose | Accelerated Ageing | IS 636: 2018 RA 2024 |
| 201. | Non-Percolating Flexible Fire Fighting Delivery Hose | Abrasion Resistance | IS 636: 2018 RA 2024 |
| 202. | Non-Percolating Flexible Fire Fighting Delivery Hose | Water pickup / Moisture absorption | IS 636: 2018 RA 2024 |
| 203. | Non-Percolating Flexible Fire Fighting Delivery Hose | Heat Resistance | IS 636: 2018 RA 2024 |
| 204. | Non-Percolating Flexible Fire Fighting Delivery Hose | Oil Resistance | IS 636: 2018 RA 2024 |
| 205. | Non-Percolating Flexible Fire Fighting Delivery Hose | Hot Surface Resistance | IS 636: 2018 RA 2024 |
| 206. | Non-Percolating Flexible Fire Fighting Delivery Hose | Pressure Loss | IS 636: 2018 RA 2024 |
| 207. | Non-Percolating Flexible Fire Fighting Delivery Hose | Marking | IS 636: 2018 RA 2024 |
| 208. | Unlined Flax Canvas Hose for Fire Fighting | Size | IS 4927:1992 RA 2017 |
| 209. | Unlined Flax Canvas Hose for Fire Fighting | Internal Diameter | IS 4927:1992 RA 2017 |
| 210. | Unlined Flax Canvas Hose for Fire Fighting | Lengths | IS 4927:1992 RA 2017 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 211. | Unlined Flax Canvas Hose for Fire Fighting | Mass / meter | IS 4927:1992 RA 2017 |
| 212. | Unlined Flax Canvas Hose for Fire Fighting | Coil Diameter | IS 4927:1992 RA 2017 |
| 213. | Unlined Flax Canvas Hose for Fire Fighting | Percolation | IS 4927:1992 RA 2017 |
| 214. | Unlined Flax Canvas Hose for Fire Fighting | Change in Length | IS 4927:1992 RA 2017 |
| 215. | Unlined Flax Canvas Hose for Fire Fighting | Change in Diameter | IS 4927:1992 RA 2017 |
| 216. | Unlined Flax Canvas Hose for Fire Fighting | Hydrostatic Proof Pressure Test | IS 443 (P-3):2023 |
| 217. | Unlined Flax Canvas Hose for Fire Fighting | Hydrostatic Bursting pressure Test | ISO 1402 : 2024 |
| 218. | Unlined Flax Canvas Hose for Fire Fighting | Marking | IS 4927:1992 RA 2017 |
| 219. | Polyethylene Films and sheets | Thickness | IS 2508:2024 |
| 220. | Polyethylene Films and sheets | Ageing test | IS 7016 (Part-8) :2023<br>IS 13360 (Part-5/Sec-1):2021<br>IS 13360 (Part-5/Sec-3):2022 |
| 221. | Polyethylene Films and sheets | Dart Impact strength | IS:13360 (Part-5/sec-6) 1999 RA 2020 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Plastic and Plastic Products** | | |
| 222. | Polyethylene Films and sheets | Tear resistance | IS:13360 (Part-5/Sec-23) 1996 RA 2018; IS: 2508:2024 |
| 223. | Polyethylene Films and sheets | Dimensions | IS: 10889:2004 RA 2016 |
| 224. | Polyethylene Films and sheets | Yield tolerances | IS: 10889:2004 RA 2016 |
| 225. | Polyurethane foam (PUF)/ Poly Iso-Cynaurate (PIR)/ Thermal Insulation Material | Dimensional stability | IS 11239 (P-3) 2009 RA 2024<br>ASTM D2126 |
| 226. | Flexible and rigid foams | Loss in indentation thickness after Humidity ageing | IS 7888:1976 RA 2019 |
| 227. | Flexible and rigid foams | Humidity Ageing | IS 7888:1976 RA 2019 |
| 228. | | Compression set | IS 7888:1976 RA 2019 |
| 229. | | Density | IS 7888:1976 RA 2019 |
| 230. | | Elongation at break | IS 7888:1976 RA 2019 |
| 231. | | Heat Ageing- change in Tensile | IS 7888:1976 RA 2019 |
| 232. | | Tensile strength | IS 7888:1976 RA 2019<br>ASTM D1623 |
| 233. | | Water absorption | IS 11239 (P-9) 1988 RA 2019<br>ASTM C272<br>ASTM D2842 |
| 234. | | Tear strength | ISO 8067 2023 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Rubber & Rubber Products** | | |
| 1. | Rubber hoses, Textiles Reinforced for general purpose water & welding & Air hose | Classifications/ Constructions/ Types | IS: 444:2017 RA 2018<br>IS: 447:1988 RA 2018 |
| 2. | | Material and Construction | IS: 444:2017 RA 2018<br>IS: 447:1988 RA 2018 |
| 3. | | Dimensions Internal diameters and tolerances | IS: 444:2017 RA 2018<br>ISO 4671: 2018<br>IS: 12585: 2023<br>IS: 443 (P-8):2023 |
| 4. | | Minimum thickness of lining and cover | IS: 444:2017<br>ISO 4671: 2018<br>IS: 12585:2023 |
| 5. | | Minimum tensile strength | ISO 37; ISO 527-2; IS:443 (P-7):2022 |
| 6. | | Minimum elongation at break | ISO 37; ISO 527-2; IS:443 (P-7):2022 |
| 7. | | Resistance to Ageing | ISO 188:2011; ISO 527-2; ISO 37 |
| 8. | | Change in length at proof pressure | ISO 1402: 2024 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Rubber & Rubber Products** | | |
| 9. | Rubber hoses, Textiles Reinforced for general purpose water & welding & Air hose & Rubber and Rubber Alied products | Adhesion between components | ISO 8033<br>IS:3400 (Part-5):2022 |
| 10. | Rubber hoses, Textiles Reinforced for general purpose water & welding & Air hose | Flexibility | ISO 1746; ISO 10619-1 |
| 11. | | Low temperature flexibility | ISO 4672:1997; ISO 10619-2 |
| 12. | | Marking | IS: 447:1988; IS;444: 2017<br>IS: 446:2017 |
| 13. | | Accelerated ageing lining and cover | IS 443: 2023 |
| 14. | | Hydrostatic test pressure of one minute | IS 443 (P-3):2023 |
| 15. | Rubber hoses, Air hose | Oil absorption test | IS 446:2017 RA 2018 |
| 16. | Automotive Vehicles- Tubes for Pneumatic tyres | Materials, form and fit | IS:13098-2024 |
| 17. | | Thickness uniformity | IS:13098-2024 |
| 18. | | Elongation | IS:3400 (Part-1) 2021 |
| 19. | | Strength of splice (Tensile strength) | IS:3400 (Part-1) 2021 |
| 20. | | Set after ageing | IS: 13098:2024 |
| 21. | | Ait tightness | IS: 13098:2024 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Rubber & Rubber Products** | | |
| 22. | | Marking | IS: 13098:2024 |
| 23. | Rubber & Rubber Allied products | Hardness | IS:3400 (Part-2) 2014<br>ASTM D2240 |
| 24. | Rubber & Rubber Allied products | Compression set | IS:3400(Part-10/ Sec-2):2022<br>ASTM D395 |
| 25. | Rubber & Rubber Allied products | Ageing test | IS:3400 (Part-1) 2021<br>IS:3400 (Part-2) 2014<br>IS:3400 (Part-3) 2021<br>ASTM D573 |
| 26. | Rubber & Rubber Allied products | Tensile strength | IS:3400 (Part-1) 2021 |
| 27. | Rubber & Rubber Allied products | Elongation | IS:3400 (Part-1) 2021 |
| 28. | Rubber & Rubber Allied products | Water immersion changes in volume after immersion | IS:3400 (Part-6) 2018 |
| 29. | Thermoplastic Hoses (Textile Reinforced) for Water | Dimensions | IS 443 (P-8):2023 |
| 30. | Thermoplastic Hoses (Textile Reinforced) for Water | Loss of Mass on Heating | IS: 12585:2023 |
| 31. | Thermoplastic Hoses (Textile Reinforced) for Water | Adhesion | IS 3400 (P-5):2022 |
| 32. | Thermoplastic Hoses (Textile Reinforced) for Water | Pressure Test Requirement | ISO 1402 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Rubber & Rubber Products** | | |
| 33. | Thermoplastic Hoses (Textile Reinforced) for Water | Minimum Bend Radius | IS 12657:2014 RA 2019 |
| 34. | Thermoplastic Hoses (Textile Reinforced) for Water | Low Temperature Flexibility | IS 12657:2014 RA 2019 |
| 35. | Thermoplastic Hoses (Textile Reinforced) for Water | Marking | IS 12585:2023 |

| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 1. | Steel tubes/ steel pipe/ cast iron pipes & fittings/ ductile iron pipes & fittings/ hot rolled steel strip for welded tubes and pipes/ reinforcement)/ steel pipe for water and sewage - seamless and Welded/ steel tubes for mechanical and general engineering purposes | Elongation % | IS 1608(Part 1):2022 |
| 2. | | Yield Stress | IS 1608(P-1): 2022 |
| 3. | | Tensile Strength | IS 1608(Part 1):2022 |
| 4. | | Flattening Test | IS 2328: 2018 RA 2023 |
| 5. | | Bend Test | IS 2329: 2005 RA 2022/ IS 10748 : 2004 RA 2021/ IS 3601 : 2006 RA 2022 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 6. | | Dimension | IS 1161 : 2014 RA 2019/ IS 1239 (P-1) : 2004 RA 2014/ IS 1729 : 2023 / IS 8329 : 2000 RA 2020 / IS 15905 : 2024 / IS 3989 : 2024/ IS 10748 : 2004 RA 2014/ IS: 458: 2021/ IS 3589 : 2001 RA 2022/ IS 3601 : 2006 RA 2022 |
| 7. | | Leak Proof Test | IS 1239 (P-1):2004 RA 2014 |
| 8. | | Length | IS 1239 (P-1) : 2004 RA 2014/ IS 3589 : 2001 RA 2022/ IS 3601 : 2006 RA 3601 |
| 9. | | Marking | IS 1239 (P-1):2004 RA 2014 |
| 10. | Steel tubes/ steel pipe/ cast iron pipes & fittings/ ductile iron pipes & fittings/ hot rolled steel strip for welded tubes and pipes/ reinforcement)/ steel pipe for water and sewage - seamless and Welded/ steel tubes for mechanical and general engineering purposes | Mass | IS 1161 : 2014 RA 2019/ IS 1239 (P-1) : 2004 RA 2014/ IS 1729 : 2023 / IS 8329 : 2000 RA 2020 / IS 15905 : 2024 / IS 3989 : 2024/ IS 10748 : 2004 RA 2014/ IS: 458: 2021/ IS 3589 : 2001 RA 2022/ IS 3601 : 2006 RA 2022 |
| 11. | | Straightness | IS 1161 : 2014 RA 2019/ IS 3601 : 2006 RA 2022 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 12. | | Thickness | IS 1161 : 2014 RA 2019/ IS 1239 (P-1) : 2004 RA 2014/ IS: 458: 2021/ IS 3589 : 2001 RA 2022/ IS 3601 : 2006 RA 2022 |
| 13. | | Workmanship | IS 1161 : 2014 RA 2019/ IS 1239(P-1) : 2004 RA 2014/ IS: 458: 2021/ IS 3589 : 2001 RA 2022/ IS 3601 : 2006 RA 2022 |
| 14. | | Coating test At a temperature of 65 degree Celsius At a temperature of 0 degree | IS 1729 : 2023/ IS 3989 : 2024/ IS 15905 : 2024 |
| 15. | | Hydro static Test | IS 3989: 2024 / IS 15905 : 2024/ IS: 3597: 1998 RA 2023/ IS 3589 : 2001 RA 2022 |
| 16. | | Hammer Test | IS 15905 :2024 / IS 1729 :2023 |
| 17. | Steel tubes/ steel pipe/ cast iron pipes & fittings/ ductile iron pipes & fittings/ hot rolled steel strip for welded tubes and pipes/reinforcement)/ steel pipe for water and sewage - seamless and Welded/ steel tubes for | Crush Test | IS 15905 : 2024 |
| 18. | | Brinel Hardness | IS 1500 (P-1) : 2019 RA 2024 |
| 19. | | Freedom From Defects | IS 10748 : 2004 RA 2021 |
| 20. | | Tolerances Measurement | IS 10748 : 2004 RA 2021 |
| 21. | | Minimum number of longitudinal mild steel or hard drawn steel | IS: 458: 2021 |
| 22. | | Weight of longitudinal, Mild Steel or Hard Drawn Steel | IS: 458: 2021 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 23. | mechanical and general engineering purposes | Weight of Spiral, Hard Drawn Steel Wire | IS: 458: 2021 |
| 24. | Welded Material/ Welds & Welded Specimens/ Welded Wire Mesh/ Fillet Weld Fracture Test | Elongation | IS: 1608 (Part-1): 2022 |
| 25. | | Fillet Weld Fracture | IS: 7307 (Part-1): 1974 RA 2019/ IS 3600 (P-1) : 2022/ASME SECTION IX: 2019 |
| 26. | | Macro examination | IS: 7307 (Part-1): 1974 RA 2019 |
| 27. | | Tensile Strength | IS: 1608 (Part-1): 2022/ ASME SECTION IX 2019 / IS 3600 (Part 4):2024 |
| 28. | | Yield Stress | IS: 1608 (Part-1): 2022 |
| 29. | | Macro Examination | IS 3600 (P-9) : 2025 / ASME SECTION IX: 2019 |
| 30. | Welded Material/ Welds & Welded Specimens/ Welded Wire Mesh/ Fillet Weld Fracture Test | Root Bend | IS 3600(P-5) 2018 & IS 3600(P-7): 2024/ ASME SECTION IX: 2019 |
| 31. | | Side Bend | ASME SECTION IX: 2019 / IS 3600(P-6): 2018 |
| 32. | | Face Bend | IS 3600(P-5) 2018 & IS 3600(P-7): 2024/ ASME SECTION IX : 2019 |
| 33. | | Transverse Tensile Strength | IS 3600(P-3): 2018/ASME SECTION IX: 2019 |
| 34. | | Dimension | IS 1566:1982 RA 2020 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 35. | | Mesh Wire Diameter | IS 432 (Part-2):1982 RA 2020 |
| 36. | Covered Electrodes for Manual Metal Arc Welding of Carbon and Carbon Manganese Steel | Welded Electrode Size | IS: 814:2004 RA 2021 |
| 37. | | Length | IS: 814:2004 RA 2021 |
| 38. | | Tensile Strength | IS: 1608 (P-1) 2022 |
| 39. | | Yield stress | IS: 1608 (P-1) 2022 |
| 40. | | Elongation | IS: 1608 (P-1) 2022 |
| 41. | Hard drawn steel wire/ concertina coil/ galvanized steel barbed wire for fencing/ indented wire For prestressed concrete/ mild steel wire for general engineering purposes/ mild steel wire rods for general engineering purposes/ uncoated stress relieved low relaxation seven ply strand wire | % Elongation | IS 1608 (Part 1): 2022 |
| 42. | | Reverse Bend Test | IS 1716: 2023/ IS 6003: 2010 RA 2021 |
| 43. | | Warping Test | IS 1755: 2018 RA 2023 |
| 44. | | Ultimate Tensile Strength | IS 1608 (Part 1): 2022 |
| 45. | | Diameter of Spring Wire | IS 4454 (P-1) : 2001 RA 2021 |
| 46. | | Pitch Between the barbs | CPWD Specification Vol. 2 : 2019,Clause 16.45.1: 2019 |
| 47. | | Tensile Strength of Spring wire | IS 1608(P-1) : 2022 |
| 48. | | Weight of Concertina coil | CPWD Specification524 Vol. 2 : 2019, Clause 16.45.1: 2019 |
| 49. | | Breaking Load of Completed barbed Wire | IS 278 : 2009 RA 2020 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 50. | | Diameter of Line Wire | IS 278 : 2009 RA 2020 |
| 51. | | Diameter of Point Wire | IS 278 : 2009 RA 2020 |
| 52. | | Distance Between Two Wire | IS 278 : 2009 RA 2020 |
| 53. | | Mass of Completed Barbed Wire | IS 278 : 2009 RA 2020 |
| 54. | | No. of Lays Between the Two Consecutive Bars | IS 278 : 2009 RA 2020 |
| 55. | Hard drawn steel wire/ concertina coil/ galvanized steel barbed wire for fencing/ indented wire<br>For prestressed concrete/ mild steel wire for general engineering purposes/ mild steel wire rods for general engineering purposes/ uncoated stress relieved low relaxation seven ply strand wire | Dimensions | IS 6003: 2010 RA 2021/ IS 280: 2006 RA 2021 |
| 56. | | 0.2% Proof Stress | IS 1608 (P-1): 2022 |
| 57. | | Elongation After Fracture | IS 1608 (P-1):2022 |
| 58. | | MASS | IS 6003: 2010 RA 2021 |
| 59. | | Tensile Strength | IS 1608 (P-1): 2022 |
| 60. | | Freedom From Defects | IS 280 : 2006 RA 2021/ IS 7887 : 1992 RA 2022 |
| 61. | | Size and Tolerances | IS 280 : 2006 RA 2021 |
| 62. | | Size and Tolerance- out of shape | IS 7887 : 1992 RA 2022 |
| 63. | | Size and Tolerances - Diameter | IS 7887 : 1992 RA 2022 |
| 64. | | 0.2 % Proof Load | IS 1608(P-1): 2022 |
| 65. | | Breaking strength | IS 1608(P-1): 2022 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 66. | | Diameter difference between centre and surrounding wire | IS 14268: 2022 |
| 67. | | Length of Lay | IS 14268: 2022 |
| 68. | | Modulus of Elasticity | IS 1608(P-1): 2022 |
| 69. | | Nominal Area | IS 14268: 2022 |
| 70. | | Nominal Diameter | IS 14268: 2022 |
| 71. | | Nominal Mass | IS 14268: 2022 |
| 72. | | Workmanship & Finish | IS 14268: 2022 |
| 73. | Cold Reduced Carbon Steel Sheet and Strip Part 1 Cold Forming and Drawing Purposes and Part 2 High Tensile and Multi-phase Steel/ Galvanized Sheet- Corrugated/ Hot Rolled Carbon Steel Sheet, Plate and Strip | % Elongation | IS 1608(P-1): 2022 |
| 74. | | Bend Test | IS 1599: 2023 |
| 75. | | Dimensions Measurement | IS 513 (P-1 and P-2) : 2016 RA 2021 |
| 76. | Cold Reduced Carbon Steel Sheet and Strip Part 1 Cold Forming and Drawing Purposes and Part 2 High Tensile and Multi-phase Steel/ Galvanized Sheet- Corrugated/ Hot Rolled Carbon Steel Sheet, Plate and Strip | Freedom From Defects | IS 513 (P-1 and 2) : 2016 RA 2021/ IS 277: 2018 RA 2022/ IS 1079: 2017 RA 2022 |
| 77. | | Surface Finish | IS 15262: 2002 RA 2019 |
| 78. | | Tensile Strength | IS 1608(P-1): 2022 |
| 79. | | Dimensions and Tolerances | IS 513 (P-1 and P-2) : 2016 RA 2021 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 80. | | Yield Stress /0.2 % Proof Stress | IS 1608(P-1): 2022 |
| 81. | | Depth | IS 277: 2018 RA 2022 |
| 82. | | Length | IS 277: 2018 RA 2022 |
| 83. | | Mass | IS 277: 2018 RA 2022 |
| 84. | | Thickness | IS 277: 2018 RA 2022 |
| 85. | | Width | IS 277: 2018 RA 2022 |
| 86. | | Dimension | IS 1730 : 1989 RA 2019 |
| 87. | | Mass | IS 1079: 2017 RA 2022 |
| 88. | Stainless Steel Plate, Sheet and Strip | % Elongation | IS 1608(P-1): 2022 |
| 89. | | Bend Test | IS 1599 : 2023 |
| 90. | | Brinell Hardness | IS 1500 (P-1) : 2019 RA 2024 |
| 91. | | Corrosion Resistance | IS 10461(P-1,2): 1994 RA 2021 |
| 92. | Stainless Steel Plate, Sheet and Strip | Dimension & Tolerance Measurement | IS 6911: 2017 RA 2022 |
| 93. | | Erichsen Cupping Test | IS 10175 :2018 RA 2023 |
| 94. | | Freedom From Defects | IS 6911: 2017 RA 2022 |
| 95. | | Hardness Test (Rockwell Hardness) | IS 1586(P-1): 2018 RA 2023 |
| 96. | | Marking | IS 6911: 2017 RA 2022 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 97. | | Surface Finish | IS 6911: 2017 RA 2022 |
| 98. | | Tensile Strength | IS 1608(P-1): 2022 |
| 99. | | Yield Stress / 0.2% Proof Stress | IS 1608(P-1): 2022 |
| 100. | Stainless Steel Utensils | Shapes & Dimensions | IS: 14756-2024 |
| 101. | | Workmanship & Finish | IS: 14756-2024 |
| 102. | | Staining Test | IS: 14756-2024 |
| 103. | | Mechanical shock test | IS: 14756-2024 |
| 104. | | Thermal shock test | IS: 14756-2024 |
| 105. | | Dry Heat test | IS: 14756-2024 |
| 106. | | Coating thickness Test (For Copper Deposit) | IS: 14756-2024 |
| 107. | | Nominal Capacity Test | IS: 14756-2024 |
| 108. | | Fragmentation Test | IS: 14756-2024 |
| 109. | Stainless Steel Utensils | Ball Drop Test | IS: 14756-2024 |
| 110. | | Thermal Shock Test | IS: 14756-2024 |
| 111. | | Free Fall Test | IS: 14756-2024 |
| 112. | | Bend Test | IS 1599: 2023 |
| 113. | | Mass per meter | IS 1786 : 2008 RA 2018 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 114. | High Strength deformed Steel bars and wires for Concrete Reinforcement | Re-bend Test | IS 1786 : 2008 RA 2018 |
| 115. | | Tensile Strength | IS 1608 (P-1): 2022 |
| 116. | | Elongation % | IS 1608 (P-1): 2022 |
| 117. | | Yield Stress / 0.2 % Proof stress | IS: 1608 (P-1): 2022 |
| 118. | | Bond Test - Deformation and Surface Characteristic | IS 1786 : 2008 RA 2018 |
| 119. | | Specified Length | IS 1786 : 2008 RA 2018 |
| 120. | | % Total Elongation at Maximum Force | IS 1608(P-1): 2022 |
| 121. | | Deformation & Surface Characteristics Mean Area of Rib | IS 1786 : 2008 RA 2018 |
| 122. | | Deformation & Surface Characteristics Mean Projected Area of Transverse Rib | IS 1786 : 2008 RA 2018 |
| 123. | | Effective Cross- Section Area | IS 1786 : 2008 RA 2018 |
| 124. | | Nominal Cross- Sectional Area | IS 1786 : 2008 RA 2018 |
| 125. | High Strength deformed Steel bars and wires for Concrete Reinforcement | Surface Defects | IS 1786 : 2008 RA 2018 |
| 126. | | TS/YS Ratio | IS 1608(P-1): 2022 |
| 127. | | Pull Out Test | IS 2770 (Part 1): 1967 RA 2022 |
| 128. | | Bend Test | IS 1599: 2023 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 129. | Hot Rolled Medium and High Tensile Structural Steel/ Mild Steel and Medium Tensile Steel Bars and Hard-Drawn Steel Wire for Concrete Reinforcement/ Steel Chequered Plates | Elongation % | IS 1608(P-1): 2022 |
| 130. | | Freedom From Defects | IS 2062: 2011 RA 2021/ IS 432 (P-1 and 2) : 1982 RA 2020/ IS 3502 : 2009 RA 2021 |
| 131. | | Length | IS 1730 : 1989 RA 2019/ IS 1732 : 1989 RA 2019/ IS 1852 : 1989 RA 2022/ IS 2676 : 1981 RA 2022/ IS 2677 : 1981 RA 2022/ IS 808 : 2021/ IS 3502 : 2009 |
| 132. | | Mass | IS 1730 : 1989 RA 2019/ IS 1732 : 1989 RA 2019/ IS 808 : 2021 |
| 133. | | Tensile Strength | IS 1608(P-1): 2022 |
| 134. | | Thickness | IS 1730 : 1989 RA 2019/ IS 1732 : 1989 RA 2019/ IS 1852 : 1989 RA 2022/ IS 2676 : 1981 RA 2022/ IS 2677 : 1981 RA 2022/ IS 808 : 2021/ IS 3502 : 2009 |
| 135. | High Strength deformed Steel bars and wires for Concrete Reinforcement | Width | IS 1730 : 1989 RA 2019/ IS 1732 : 1989 RA 2019/ IS 1852 : 1989 RA 2022/ IS 2676 : 1981 RA 2022/ IS 2677 : 1981 RA 2022/ IS 808 : 2021/ IS 3502 : 2009 |
| 136. | | Yield Stress/0.2% Proof Stress | IS 1608(P-1): 2022 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 137. | | Dimensions | IS 432 (P-1 and 2) : 1982 RA 2020 |
| 138. | | Calculation of Mass | IS 3502 : 2009 RA 2021 |
| 139. | | Chequered Height | IS 3502 : 2009 RA 2021 |
| 140. | Reinforcement Couplers for Mechanical Splices of Bars in Concrete | Elongation % | IS 1608(P-1): 2022 |
| 141. | | Slip test | IS 16172 : 2023 |
| 142. | | Tensile Strength | IS 1608(P-1): 2022 |
| 143. | | Workmanship And Finish | IS 16172 : 2023 |
| 144. | Hollow Steel Section for Structural Use | Dimension - Outside Dimension | IS 4923: 2017 RA 2023 |
| 145. | | Length | IS 4923: 2017 RA 2023 |
| 146. | | Mass | IS 4923 : 2017 RA 2023 |
| 147. | | Thickness | IS 4923: 2017 RA 2023 |
| 148. | | Tensile Strength | IS 1608 (P-1): 2022 |
| 149. | | Elongation % | IS 1608 (P-1): 2022 |
| 150. | | Yield Stress | IS: 1608 (P-1): 2022 |
| 151. | Aluminium and alloys, bars and rods | Dimensions (Width) | IS 2673 : 2002 RA 2022 |
| 152. | | Freedom From Defects | IS 1285 : 2023/ IS 733 : 1983 RA 2022/ IS 737 : 2024/ IS 738 : 1994 RA 2020 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 153. | | Thickness | IS 2678 : 1987 RA 2022/ IS 6477 : 1983 RA 2021/ IS 3965 : 1981 RA 2022 |
| 154. | | % Elongation | IS 1608 (P-1):2022 |
| 155. | | 0.2 % Proof Stess | IS 1608(P-1) : 2022 |
| 156. | | Tensile Strength | IS 1608 (P-1):2022 |
| 157. | | Dimensions (Length) | IS 2673 : 2002 RA 2022 |
| 158. | Wrought Aluminium Utensils | Colour | Cl.8.3 of IS 1660 : 2024 |
| 159. | | Handles | Cl.7.0 of IS 1660 : 2024 |
| 160. | | Hardness | Cl.8.3 of IS 1660 : 2024 |
| 161. | | Marking | Cl.11.0 of IS 1660 : 2024 |
| 162. | | Test For Lunch Boxes- Performance Test | Cl.8.10 of IS 1660 : 2024 |
| 163. | | Abrasion Resistance | Cl.8.3 of IS 1660 : 2024 |
| 164. | | Fabrication (Reduction in thickness) | Cl.5 of IS 1660 : 2024 |
| 165. | | Shape and Dimensions | Cl.6 of IS 1660 : 2024 |
| 166. | Wrought Aluminium Utensils | Test For Lunch Boxes-Ground Nut Oil Test for Leakage | Cl.8.10.2 of IS 1660 : 2024 |
| 167. | | Workmanship and Finish | Cl.8 of IS 1660: 2024 |
| 168. | | Freedom From Defects | IS 740: 1977 RA 2022 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 169. | Wrought aluminium and aluminium alloy rivet stock for general engineering purposes/ wrought aluminium and aluminium alloy for manufacture of utensils | Tensile Strength | IS 1608 (P-1):2022 |
| 170. | | 0.2% Proof Stress | IS 1608 (P-1):2022 |
| 171. | | Bend Test | IS 1599: 2023 |
| 172. | | Elongation % on 50 mm Gauge Length | IS 1608 (P-1):2022 |
| 173. | | Marking | IS 21: 1992 RA 2022 |
| 174. | | Dimension & Tolerances | IS 740: 1977 RA 2022 |
| 175. | | Head Forming Test | IS 740: 1977 RA 2022 |
| 176. | | Marking | IS 740: 1977 RA 2022 |
| 177. | Fasteners made of carbon steel and alloy steel â€" bolts, screws and studs | % Elongation | Is 1608(P-1): 2022 |
| 178. | | Rockwell Hardness | IS 1586(P-1): 2018 RA 2023 |
| 179. | | Rockwell Hardness, HRBW | IS 1586 (P-1):2018 |
| 180. | | Tensile Strength | IS 1608(P-1): 2022 |
| 181. | | Yield Stress | IS 1608(P-1): 2022 |
| 182. | Metallic Materials | Rockwell Hardness | IS 1586(P-1): 2018 RA 2023 |
| 183. | | Rockwell Hardness (HRBW) | IS 1586(P-1): 2018 RA 2023 |
| 184. | Steel Butt Hinges | Screw Holes | IS: 6760: 1972 RA 2021 |
| 185. | | Position of Holes | IS 1341: 2018 |
| 186. | | Finish | IS 1341: 2018 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 187. | | Dimensions | IS: 1341: 2018 |
| 188. | | Number of Knuckles | IS: 1341: 2018 |
| 189. | Stainless Steel Butt Hinges | Screw Holes | IS: 6760: 1972 RA 2021 |
| 190. | | Position of Holes | IS 12817 : 2020 |
| 191. | | Finish | IS 12817 : 2020 |
| 192. | | Dimensions | IS 12817 : 2020 |
| 193. | | Number of Knuckles | IS 12817 : 2020 |
| 194. | Door Handles for Mortice Locks / Mortice Locks | Manufacture and Construction | IS: 4992-2024 |
| 195. | | Performance Requirement | IS: 4992-2024 / CPWD Method |
| 196. | | Workmanship | IS: 4992-2024 |
| 197. | | Handle Rotation Terminology | IS: 4992-2024 |
| 198. | | Centre Distance | IS: 4992-2024 |
| 199. | Stainless Steel Sinks for Domestic Purposes | Thickness | IS: 13983 - 1994 RA 2019 |
| 200. | | Depth of Bowls | IS: 13983 - 1994 RA 2019 |
| 201. | | Internal Dimension of Bowls | IS: 13983 - 1994 RA 2019 |
| 202. | | Marking | IS: 13983 – 1994 RA 2019 |
| 203. | Butterfly Valves for General Purposes | Face to Face Dimension | IS 13095: 2020 |
| 204. | | Performance Testing (Seat, Body Test) | IS 13095: 2020 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 205. | | Leakage Test | IS 13095: 2020 |
| 206. | Metal Beam Crash Barrier | Tensile Strength, N/mm2 | IS:1608(P-1)-2022 |
| 207. | Metal Beam Crash Barrier | Yield Stress, N/mm2 | IS:1608(P-1)-2022 |
| 208. | Metal Beam Crash Barrier | Elongation, % | IS:1608(P-1)-2022 |
| 209. | Metal Beam Crash Barrier | Bend Test | IS:1599-2023 |
| 210. | Sprinkler Heads for Fire Protection | Leakage Test (30 days Leakage Test)<br>(Nuematic Leakage Test)<br>(Hydrostatic Strength) | IS 9972:2023 |
| 211. | Sprinkler Heads for Fire Protection | Water Hammer Test | IS 9972:2023 |
| 212. | | Deflector Strength | IS 9972:2023 |
| 213. | | Operating Temperature (Air Bath Test) | IS 9972:2023 |
| 214. | | Heat Exposure Test (Glass Bulb Sprinkers) | IS 9972:2023 |
| 215. | | Freezing Test | IS 9972:2023 |
| 216. | | Corrision Test(Salt Spray Test) | IS 9972:2023 |
| 217. | Sprinkler Heads for Fire Protection | Stress Cracking Test | IS 9972:2023 |
| 218. | SDA Rod / Coupler | Tensile Strength, N/mm2 | IS:1608(P-1)-2022 |
| 219. | SDA Rod / Coupler | Yield Stress, N/mm2 | IS:1608(P-1)-2022 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 220. | SDA Rod / Coupler | Elongation, % | IS:1608(P-1)-2022 |
| 221. | Stainless Steel Seamless Pipes and Tubes for General Services | Tensile Strength | IS:1608(P-1)-2022 |
| 222. | | Yield Strength | IS:1608(P-1)-2022 |
| 223. | | Percent Elongation | IS:1608(P-1)-2022 |
| 224. | | Brinell Hardness | IS 1500 (P-1): 2019 RA 2023 |
| 225. | | Rockwell Hardness HRC | IS 1586(P-1): 2018 RA 2023 |
| 226. | | Rockwell Hardness HRB | IS 1586(P-1): 2018 RA 2023 |
| 227. | | Flattening test | IS 2328: 2018 RA 2023 |
| 228. | | Leak tightness test | IS 17875 : 2022 |
| 229. | | Outside Diameter | IS 17875 : 2022 |
| 230. | | Wall Thickness | IS 17875 : 2022 |
| 231. | Stainless Steel Welded Pipes and Tubes for General Services | Tensile Strength | IS:1608(P-1)-2022 |
| 232. | | Yield Strength | IS:1608(P-1)-2022 |
| 233. | | Percent Elongation | IS:1608(P-1)-2022 |
| 234. | | Brinell Hardness | IS 1500 (P-1) : 2019 RA 2024 |
| 235. | | Rockwell Hardness HRC | IS 1586(P-1): 2018 RA 2023 |
| 236. | | Rockwell Hardness HRB | IS 1586(P-1): 2018 RA 2023 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 237. | Stainless Steel Welded Pipes and Tubes for General Services | Flattening test | IS 2328: 2018 RA 2023 |
| 238. | | Leak tightness test | IS 17876: 2022 |
| 239. | | Outside diameter | IS 17876: 2022 |
| 240. | | Wall thickness | IS 17876: 2022 |
| 241. | | Tensile strength | IS:1608(P-1)-2022 |
| 242. | Steel rivet bars (medium and high tensile) for structural purposes | Diameter of Bar | IS 1148: 2009 RA 2021 |
| 243. | Steel Shelving Cabinets | Dimensions and tolerances (Overall Dimensions of Shelving Cabinets)<br>Height<br>Width<br>Depth | IS 3312: 2021 |
| 244. | | Dimensions of Lockers<br>Height<br>Width<br>Depth | IS 3312: 2021 |
| 245. | | Safe Distributed Loads for Shelves for Shelving Cabinets | IS 3312: 2021 |
| 246. | | Thickness of cabinet | IS 3312: 2021 |
| 247. | | Dimension of Shelves | IS 3312: 2021 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 248. | | Dimension of Pedestal | IS 3312: 2021 |
| 249. | Steel Shelving Cabinets | Dimension of Hinges | IS 3312: 2021 |
| 250. | Landing Valves | Dimensions | IS: 5290 – 1993 RA 2018 |
| 251. | | Finish | IS: 5290 – 1993 RA 2018 |
| 252. | | Water Tightness | IS: 5290 – 1993 RA 2018 |
| 253. | | Hydrostatic Pressure Test | IS: 5290 – 1993 RA 2018 |
| 254. | | Flow Test | IS: 5290 – 1993 RA 2018 |
| 255. | | Marking | IS: 5290 – 1993 RA 2018 |
| 256. | Couplings, Double Male and Double Female Instantaneous Pattern for Fire Fighting / Fire Hose Delivery Couplings, Branch Pipe, Nozzles and Nozzle Spanner / Delivery Breechings, Dividing and Collecting, Instantaneous Pattern for Fire Fighting Purposes / Portable and Fixed Type Revolving Branch for Fire Fighting / Suction Strainers, cylindrical Type for Fire | Dimension | IS: 901 1988 RA 2017 / IS: 903 1993 RA 2018 / IS: 905 1980 RA 2018 / IS: 906 2024 / IS: 907 1984 RA 2020 / IS: 910 1980 RA 2018 |
| 257. | | Hydraulic Test | IS: 901 1988 RA 2017 / IS: 903 1993 RA 2018 / IS: 905 1980 RA 2018 / IS: 906 2024 / IS: 907 1984 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 258. | Fighting Purposes / Combined Key for Hydrant, Hydrant Cover and Lower Valve / Fog Nozzle for Fire Brigade Use | Workmanship and Finish | IS: 901 1988 RA 2017 / IS: 903 1993 RA 2018 / IS: 905 1980 RA 2018 / IS: 906 2024 / IS: 907 1984 RA 2020 / IS: 910 1980 RA 2018 |
| 259. | | Marking | IS: 901 1988 RA 2017 / IS: 903 1993 RA 2018 / IS: 905 1980 RA 2018 / IS: 906 2024 / IS: 907 1984 RA 2020 / IS: 910 1980 RA 2018 |
| 260. | Fire Hose Delivery Couplings, Branch Pipe, Nozzles and Nozzle Spanner | Deflection Test | IS: 903 1993 RA 2018 |
| 261. | Portable and Fixed Type Revolving Branch for Fire Fighting | Environmental Test | IS: 906 2024 |
| 262. | Portable Fire Extinguishers - Performance & Construction Specification | Fill Density | IS: 15683 - 2018 |
| 263. | | Capacities | IS: 15683 – 2018 |
| 264. | | Pressure Test | IS: 15683 - 2018 |
| 265. | | Minimum Burst Pressure | IS: 15683 - 2018 |
| 266. | | Operating Temperature Ranges | IS: 15683 – 2018 |
| 267. | | Min. Effective Discharge Time | IS: 15683 – 2018 |
| 268. | | Bulk Range of Discharge | IS: 15683 – 2018 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 269. | | Resistance to Temperature changes | IS: 15683 – 2018 |
| 270. | Portable Fire Extinguishers - Performance & Construction Specification | Retention of Charge following Partial Discharge (Discharge Valve Test) | IS: 15683 – 2018 |
| 271. | | Leakage Test | IS: 15683 – 2018 |
| 272. | | Maximum Service Pressure | IS: 15683 – 2018 |
| 273. | | Air- Oven Ageing | IS: 15683 - 2018 |
| 274. | | Impact Resistance Test | IS: 15683 - 2018 |
| 275. | | Vibration Resistance Test | IS: 15683 - 2018 |
| 276. | | External Corrosion Test | IS: 15683 – 2018 |
| 277. | | Internal Corrosion Test | IS: 15683 - 2018 |
| 278. | | Tapping Test | IS: 15683 - 2018 |
| 279. | | Intermittent Discharge Test | IS: 15683 - 2018 |
| 280. | | Performance Requirement for Fire Test | IS: 15683 - 2018 |
| 281. | | Construction Requirement | IS: 15683 - 2018 |
| 282. | | General Requirement | IS: 15683 - 2018 |
| 283. | | Burst Test | IS: 15683 - 2018 |
| 284. | | Crushing Test | IS: 15683 - 2018 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 285. | | Pressure Cycling Test | IS: 15683 – 2018 |
| 286. | Portable Fire Extinguishers - Performance & Construction Specification | Thickness of the Cylinder | IS: 15683 – 2018 |
| 287. | | Carrying Handle | IS: 15683 - 2018 |
| 288. | | Mounting | IS: 15683 - 2018 |
| 289. | | Cap, Valve & Closure | IS: 15683 - 2018 |
| 290. | | Safety Devices | IS: 15683 – 2018 |
| 291. | | Requirement for Plastic Component | IS: 15683 - 2018 |
| 292. | | Requirement of Hose Assemblies | IS: 15683 - 2018 |
| 293. | | Method of Operation (Batch Test) | IS: 15683 – 2018 |
| 294. | | Safety Locking Devices | IS: 15683 – 2018 |
| 295. | | Requirement for Pressure Gauges and Indicators | IS: 15683 – 2018 |
| 296. | | Requirement of Dip-Tubes and Filters | IS: 15683 – 2018 |
| 297. | | Horn Test for Carbon Dioxide Extinguishers | IS: 15683 – 2018 |
| 298. | | Marking and Colour | IS: 15683 – 2018 |
| 299. | | Fill Density & Filling Tolerance | IS: 16018 – 2012 RA 2018 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 300. | | Operating Temperatures | IS: 16018 – 2012 RA 2018 |
| 301. | Portable Fire Extinguishers - Performance & Construction Specification | Bulk Range | IS: 16018 – 2012 RA 2018 |
| 302. | | Effective Discharge Time | IS: 16018 – 2012 RA 2018 |
| 303. | | Resistance to Temperature Changes | IS: 16018 – 2012 RA 2018 |
| 304. | | Retention of Charge | IS: 16018 – 2012 RA 2018 |
| 305. | | Intermittent Discharge Test | IS: 16018 – 2012 RA 2018 |
| 306. | | External Corrosion Test | IS: 16018 – 2012 RA 2018 |
| 307. | Wheeled Fire Extinguishers – Performance and Construction | Internal Corrosion Test | IS: 16018 – 2012 RA 2018 |
| 308. | | Durability Test | IS: 16018 – 2012 RA 2018 |
| 309. | | Fire Performance Test | IS: 16018 – 2012 RA 2018 |
| 310. | | Construction Requirements | IS: 16018 – 2012 RA 2018 |
| 311. | | Low-Pressure Cylinders Service Pressure | IS: 16018 – 2012 RA 2018 |
| 312. | | Burst Test | IS: 16018 – 2012 RA 2018 |
| 313. | | Deformation Test | IS: 16018 – 2012 RA 2018 |
| 314. | | Pressure Cycling Test | IS: 16018 – 2012 RA 2018 |
| 315. | | Thickness of Cylinders | IS: 16018 – 2012 RA 2018 |
| 316. | | Caps, Valves and Closures | IS: 16018 – 2012 RA 2018 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Mechanical Properties of Metal** | | |
| 317. | | Safety devices | IS: 16018 – 2012 RA 2018 |
| 318. | | Anti-overfill devices | IS: 16018 – 2012 RA 2018 |
| 319. | Wheeled Fire Extinguishers – Performance and Construction | Leakage Tests | IS: 16018 – 2012 RA 2018 |
| 320. | | Plastic Component Requirements | IS: 16018 – 2012 RA 2018 |
| 321. | | Discharge Assembly | IS: 16018 – 2012 RA 2018 |
| 322. | | Horn for Carbon Dioxide Extinguisher | IS: 16018 – 2012 RA 2018 |
| 323. | | Method of Operation | IS: 16018 – 2012 RA 2018 |
| 324. | | Safety-Locking Device | IS: 16018 – 2012 RA 2018 |
| 325. | | Pressure Gauge for Low Pressure Extinguishers | IS: 16018 – 2012 RA 2018 |
| 326. | | Requirement of Dip Tubes & Filters | IS: 16018 – 2012 RA 2018 |
| 327. | | Carriage Assembly | IS: 16018 – 2012 RA 2018 |
| 328. | | Mobility Test | IS: 16018 – 2012 RA 2018 |
| 329. | | Hose Retaining Unit | IS: 16018 – 2012 RA 2018 |
| 330. | | Colour and Marking | IS: 16018 – 2012 RA 2018 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 1. | Fire Resisting Record Protection Cabinets | Nominal Size | IS: 14203 - 2023 |
| 2. | | Dimensions | IS: 14203 - 2023 |
| 3. | | Cabinet Construction | IS: 14203 - 2023 |
| 4. | | Locking Mechanism | IS: 14203 - 2023 |
| 5. | | Locks | IS: 14203 - 2023 |
| 6. | | Handles | IS: 14203 - 2023 |
| 7. | | Internal Fixtures | IS: 14203 - 2023 |
| 8. | | Painting | IS: 14203 - 2023 |
| 9. | | Cross Hatch Test | IS: 14203 - 2023 |
| 10. | | Fire Test | IS: 14203 - 2023 |
| 11. | Fire Doors and Door sets | Size of Vision Pane | IS: 3614 - 2021 |
| 12. | | Fire Test | IS: 3614 - 2021 |
| 13. | | Fire Rated Hinged Doors-Dimension | IS: 3614 - 2021 |
| 14. | | Fire Rated Hinged Doors-Thickness | IS: 3614 - 2021 |
| 15. | | Marking and Labelling | IS: 3614 - 2021 |
| 16. | Fire Resistance Tests for Doors with Glass Panes, Openable | Fire Test | IS: 16947 2018 RA 2024 |
| 17. | | Test for Integrity | IS: 16947 2018 RA 2024 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 18. | Glass Windows and Sliding Glass doors | Test for Insulation | IS: 16947 2018 RA 2024 |
| 19. | | Test for Radiation | IS: 16947 2018 RA 2024 |
| 20. | | Deflection | IS: 16947 2018 RA 2024 |
| 21. | Autoclaved Cellular Concrete Blocks/Autoclaved Aerated Concrete Blocks | Fire test Upto 1200 degree centigrade | BS 476-20 |
| 22. | | Fire test Upto 1200 degree centigrade | ASTM E119 |
| 23. | Door and shutter Assemblies | Fire Resistance Test | ISO 3008-1 |
| 24. | Door and shutter /Boards /Panels | Fire Resistance Test | ISO 834-1 |
| 25. | Door and shutter /Boards /Panels | Fire test Upto 1200 degree centigrade | ASTME 119 |
| 26. | Doors with glass Panels/Openable Glass Windows and Sliding Glass | Fire Resistance Test | IS 16947 2018 RA 2024 |
| 27. | Lift Landing Door Assemblies | Fire Resistance Test | IS 17518 (PART -2) 2021 |
| 28. | Lift Landing Door Assemblies | Fire Resistance Test | ISO 3008-2 |
| 29. | Metal Swing Doors/Wooden Composite Swing Doors/ Metal Rolling Shutters | Fire Resistance Test | BS EN 1634 (P-1): 2014 |
| 30. | Wall /Partitions/ Floors / Roofs | Fire Resistance Test | IS 3809 1979 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 31. | Wall /Partitions/ Floors / Roofs | Fire Resistance Test | EN1364-1 |
| 32. | Admixtures | Air Content | IS 1199 (Part 4):2018 |
| 33. | Admixtures | Bleeding | IS 9103: 1999, RA 2018 |
| 34. | Admixtures | Compressive Strength | IS 516: 1959 RA 2018 |
| 35. | Admixtures | Flow | IS 9103: 1999, RA 2018 |
| 36. | Admixtures | Loss of Workability | IS 1199: 1959 |
| 37. | Admixtures | Setting Times (Initial and Final) | IS 1199 (Part 7):2018 |
| 38. | Admixtures | Water Content | IS 9103: 1999 RA 2018 |
| 39. | Aggregate (Coarse & Fine) | Bulk Density | IS 2386 (Part 3): 1963, (RA-2016) |
| 40. | Aggregate (Coarse & Fine) | Impact Value | IS 2386 (Part 4): 1963, (RA-2016) |
| 41. | Aggregate (Coarse & Fine) | Sieve Analysis, Material Passing Through IS Sieve % | IS 2386 (Part 1): 1963, (RA-2016) |
| 42. | Coarse Aggregate | Abrasion Value | IS: 2386 (Part 4): 1963, (RA-2021) |
| 43. | Coarse Aggregate | Clay Lumps | IS 2386 (Part 2): 1963, (RA- 2021) |
| 44. | Coarse Aggregate | Coal And Lignite | IS 2386 (Part 2): 1963, (RA-2021) |
| 45. | Coarse Aggregate | Combined Flakiness and Elongation Index | IS 2386 (Part 1): 1963, RA 2021 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 46. | Coarse Aggregate | Crushing Value | IS: 2386 (Part 4): 1963 RA-2021 |
| 47. | Coarse Aggregate | Elongation Index | IS 2386 (Part 1) : 1963 RA-2021 |
| 48. | Coarse Aggregate | Flakiness Index | IS 2386 (Part 1):1963 RA-2021 |
| 49. | Coarse Aggregate | Material Finer than 75 microns | IS 2386 (Part 1): 1963 RA-2021 |
| 50. | Coarse Aggregate | Soft Particle | IS 2386 (Part 2): 1963 RA-2021 |
| 51. | Coarse Aggregate | Soundness by Na2SO4 | IS 2386 (Part 5): 1963 RA-2021 |
| 52. | Coarse Aggregate | Soundness by MgSO4 | IS 2386 (Part 5): 1963 RA-2021 |
| 53. | Coarse Aggregate | Specific Gravity | IS 2386 (Part 3):1963 RA-2021 |
| 54. | Coarse Aggregate | Surface Moisture | IS: 2386 (Part-3): 1963 RA-2021 |
| 55. | Coarse Aggregate | Ten Percent Fines Value | IS 2386 (Part 4): 1963 RA-2021 |
| 56. | Coarse Aggregate | Water Absorption | IS 2386 (Part 3): 1963 RA-2021 |
| 57. | Coarse Aggregate | Polished Stone Value | EN 1097 (Part-8): 2009 / EN 14231: 2003 |
| 58. | Fine Aggregate | Bulking of Sand | IS: 2386 (Part-3): 1963 RA-2021 |
| 59. | Fine Aggregate | Clay Lumps | IS 2386 (Part 2): 1963 RA-2021 |
| 60. | Fine Aggregate | Coal And Lignite | IS 2386 (Part 2):1963 RA-2021 |
| 61. | Fine Aggregate | Material Finer than 75 microns | IS 2386 (Part 1):1963 RA-2021 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 62. | Fine Aggregate | Organic Impurities | IS 2386 (Part 2): 1963 RA-2021 |
| 63. | Fine Aggregate | Silt Content | CPWD Specification Vol. 1 2019, Appendix-C, Clause 3.1.3.2 / IS 2386 (Part 2) : 1963 RA-2021 |
| 64. | Fine Aggregate | Soundness by Na2SO4 | IS 2386 (Part 5): 1963 RA-2021 |
| 65. | Fine Aggregate | Soundness by MgSO4 | IS 2386 (Part 5): 1963 RA-2021 |
| 66. | Fine Aggregate | Specific Gravity | IS 2386 (Part 3):1963 RA-2021 |
| 67. | Fine Aggregate | Water Absorption | IS 2386 (Part 3): 1963 RA-2021 |
| 68. | Fine Aggregates | Sand Equivalent Value | IS: 2720 (P-37) : 1976 RA 2021 |
| 69. | Fine Aggregate | Fineness Modulus | ASTM C -136 (Cl.9.2) |
| 70. | Coarse/Fine Aggregate | Petrography Test | IS:2386 (Part-8) 1963 RA 2021 |
| 71. | Bituminous Mix | Indirect Tensile Strength Ratio | ASTM D6931: 2017 |
| 72. | Paving Bitumen | Flash Point | IS 1209: 2021 |
| 73. | Paving Bitumen | Flash Point | IS 1448 (Part 69) : 2019 RA 2024 |
| 74. | Paving Bitumen | Penetration | IS 1203: 2022 |
| 75. | Paving Bitumen | Softening Point | IS 1205: 2022 |
| 76. | Paving Bitumen | Solubility in Trichloroethylene | IS 1216 : 2023 |
| 77. | Paving Bitumen | Specific Gravity | IS 1202 : 2021 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 78. | Pulverised fuel ash lime brick | Dimensions- Height | IS 12894 : 2002 RA 2022 |
| 79. | Pulverised fuel ash lime brick | Dimensions- Length | IS 12894 : 2002 RA 2022 |
| 80. | Pulverised fuel ash lime brick | Dimensions- Width | IS 12894 : 2002 RA 2022 |
| 81. | Pulverised Fuel Ash Lime Bricks | Dimensions- Height | IS 13757 : 1993 RA 2021 |
| 82. | Pulverised Fuel Ash Lime Bricks | Dimensions- Length | IS 13757 : 1993 RA 2021 |
| 83. | Pulverised Fuel Ash Lime Bricks | Dimension- width | IS 13757 : 1993 RA 2021 |
| 84. | Burnt Clay Bricks | Dimensions- Length | IS 1077: 1992 RA 2021 |
| 85. | Burnt Clay Bricks | Dimensions- Height | IS 1077: 1992 RA 2021 |
| 86. | Burnt Clay Bricks | Dimensions- Width | IS 1077: 1992 RA 2021 |
| 87. | Burnt Clay Bricks/ Burnt Clay Fly Ash/ Pulverised Fuel Ash Lime Bricks | Compressive Strength | IS 3495 (Part 1) : 2019 |
| 88. | Burnt Clay Bricks/ Burnt Clay Fly Ash/ Pulverised Fuel Ash Lime Bricks | Efflorescence | IS 3495 (Part 3):2019 |
| 89. | Burnt Clay Bricks/ Burnt Clay Fly Ash/ Pulverised Fuel Ash Lime Bricks | Water Absorption | IS 3495 (Part 2): 2019 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 90. | Concrete Paving Blocks | Dimensions | IS 15658 : 2021 |
| 91. | Concrete Paving Blocks | Compressive Strength | IS 15658 : 2021 |
| 92. | Concrete Paving Blocks | Water Absorption | IS 15658 : 2021 |
| 93. | Concrete Paving Blocks | Abrasion Resistance | IS 15658 : 2021 |
| 94. | Concrete Paving Blocks | Aspect Ratio (L/T) | IS 15658: 2021 |
| 95. | Concrete Paving Blocks | Deviation from Squareness | IS 15658: 2021 |
| 96. | Concrete Paving Blocks | Flexural Strength / Breaking Load | IS 15658: 2021 |
| 97. | Concrete Paving Blocks | Freeze thaw Durability | IS 15658: 2021 |
| 98. | Concrete Paving Blocks | Plan Area | IS 15658: 2021 |
| 99. | Concrete Paving Blocks | Quality and Finish | IS 15658: 2021 |
| 100. | Concrete Paving Blocks | Thickness of wearing layer | IS 15658: 2021 |
| 101. | Concrete Paving Blocks | Visual Inspection | IS 15658: 2021 |
| 102. | Masonary Units- Autoclaved Cellular Aerated Concrete Blocks | Dimensions | IS 2185 (Part 3) : 1984, (RA 2020) |
| 103. | | Block Density | IS 6441 (P-1): 1972, (RA 2022) |
| 104. | | Compressive Strength | IS 6441 (Part 5) : 1972, (RA 2022) |
| 105. | | Drying Shrinkage | IS 6441 (Part 2): 1972 RA 2022 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 106. | Masonary Units- Autoclaved Cellular Aerated Concrete Blocks/ Thermal Insulated | Thermal Conductivity | IS 2185 (Part 3) 1994 RA 2020/ IS 3346 : 1980 RA 2022 |
| 107. | Building Lime | Compressive Strength at 14 Days | IS 6932(P-7) : 1973 RA 2019 |
| 108. | Building Lime | Compressive Strength at 28 Days | IS: 6932(P-7) : 1973 RA 2019 |
| 109. | Building Lime | Setting Time Final | IS:6932(P-11) : 1983 RA 2019 |
| 110. | Building Lime | Fineness- Residue of 2.36 mm IS Sieve | IS:6932(P-4) : 1973 RA 2019 |
| 111. | Building Lime | Fineness- Residue of 212 micron IS Sieve | IS 6932(P-4) : 1973 RA 2019 |
| 112. | Building Lime | Fineness- Residue of 300 micron IS Sieve | IS: 6932(P-4) : 1973 RA 2019 |
| 113. | Building Lime | Initial Setting Time | IS:6932(P-11) : 1983 RA 2019 |
| 114. | Building Lime | Popping & Pitting | IS: 6932(P-10) : 1973 RA 2019 |
| 115. | Building Lime | Residue of slaking- Residue on 300 micron Sieve | IS: 6932(P-3) : 1973 RA 2019 |
| 116. | Building Lime | Residue of slaking- Residue on 850 micron Sieve | IS: 6932(P-3): 1973 RA 2019 |
| 117. | Building Lime | Soundness, Le Chatelier expansion | IS: 6932(P-9) : 1973 RA 2019 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 118. | Building Lime | Transverse Strength | IS: 6932(P-7): 1973 RA 2019 |
| 119. | Building Lime | Volume Yield | IS: 6932(P-6): 1973 RA 2019 |
| 120. | Building Lime | Workability | IS: 6932(P-8) : 1973 RA 2019 |
| 121. | Cement (OPC/PPC/PSC) | Compressive Strength | IS 4031 (Part 6) : 1988 |
| 122. | Cement (OPC/PPC/PSC) | Fineness Of Blaine's Air Permeability | IS 4031 (Part 2) : 1999 |
| 123. | Cement (OPC/PPC/PSC) | Setting Time | IS 4031 (Part 5) : 1988 |
| 124. | Cement (OPC, PPC, PSC) | Consistency | IS 4031 (Part 4): 1988 RA 2019 |
| 125. | Cement (OPC, PPC, PSC) | Density | IS 4031 (part 11): 1988 RA 2019 |
| 126. | Cement (OPC, PPC, PSC) | Soundness By Autoclave Method | IS 4031 (PART3) : 1988 RA 2019 |
| 127. | Cement (OPC, PPC, PSC) | Soundness By Le-Chatelier's Method | IS 4031 (Part 3): 1988 RA 2019 |
| 128. | Cement (PPC) | Drying Shrinkage | IS 4031 (part 10): 1988 RA 2019 |
| 129. | Composite Cement | Consistency | IS 4031(P-4) : 1988 RA 2019 |
| 130. | Composite Cement | Density | IS 4031(P-11) : 1988 RA 2019 |
| 131. | Composite Cement | Drying Shrinkage | IS 4031 (P-10) : 1988 RA 2019 |
| 132. | Composite Cement | Setting Time Final | IS 4031(P-5) : 1988 RA 2019 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 133. | Composite Cement | Fineness of Blaine's Air Permeability | IS 4031 (P-2) : 1999 RA 2018 |
| 134. | Composite Cement | Setting Time Initial | IS 4031 (P-5) : 1988 RA 2019 |
| 135. | Composite Cement | Soundness By Autoclave Method | IS 4031 (P-3) : 1988 RA 2019 |
| 136. | Composite Cement | Soundness By Le-Chatelier's Method | IS 4031 (P-3) : 1988 RA 2019 |
| 137. | Hydraulic Cement | Compressive Strength | IS 4031 (P-6) : 1988 RA 2019 |
| 138. | Hydraulic Cement | Consistency | IS 4031 (P-2):1999 RA 2018 |
| 139. | Hydraulic Cement | Fineness | IS 4031 (P-6):1988 RA 2019 |
| 140. | Hydraulic Cement | Setting Time (Initial) | IS 4031 (P-5) : 1988 RA 2019 |
| 141. | Hydraulic Cement | Setting Time (Final) | IS 4031 (P-5) : 1988 RA 2019 |
| 142. | Hydraulic Cement | Soundness By Le-Chatlier | IS 4031 (P-3) : 1988 RA 2019 |
| 143. | Hydraulic Cement | Soundness By Autoclave | IS 4031 (P-3) : 1988 RA 2019 |
| 144. | Hardened Concrete | Compressive Strength by ACT Method | IS 9013 : 1978 RA 2018 |
| 145. | Hardened Concrete | Compressive Strength- Cube | IS 516: 1959 RA 2018 |
| 146. | Hardened Concrete | Density | IS 516 (P-2/Sec-1): 2018 RA 2023 |
| 147. | Hardened Concrete | Drying Shrinkage | IS 516(P-6) : 2020 |
| 148. | Hardened Concrete | Flexural Strength | IS 516: 1959 RA 2018 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 149. | Hardened Concrete | Flexural Strength | IS 516(P-1/Sec- 1): 2021 |
| 150. | Hardened Concrete | Moisture Movement | IS 516(P-6): 2020 |
| 151. | Hardened Concrete | Split Tensile Strength | IS 516(P-1/Sec- 1): 2021 |
| 152. | Fly Ash | Compressive Strength | IS 1727 : 1967,(RA 2018) |
| 153. | Fly Ash | Drying Shrinkage | IS 1727 : 1967,(RA 2018) |
| 154. | Fly Ash | Fineness Of Blaine's Air Permeability | IS 1727 : 1967, (RA 2018) |
| 155. | Fly Ash | Lime Reactivity | IS 1727 : 1967, (RA 2018) |
| 156. | Fly Ash | Retained on 45 micron IS Sieve | IS 1727 : 1967, (RA 2018) |
| 157. | Fly Ash | Soundness By Autoclave | IS 4031 (part 3): 1988 RA 2019 |
| 158. | Fly Ash | Specific Gravity | IS 1727 : 1967, (RA 2018) |
| 159. | Abrasive Powder | Grain Size Analysis | IS 1237: 2012 RA 2022 |
| 160. | Abrasive Powder | Shape and size | IS 1237: 2012 RA 2022 |
| 161. | Abrasive Powder | Specific Gravity | IS: 1122: 2023 |
| 162. | Adhesives for Use with Ceramic, Mosaic and Stone Tiles | Open Time | IS:15477: 2019 |
| 163. | | Adjustment Times | IS:15477: 2019 |
| 164. | | Deformability | IS 15477: 2019 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 165. | | Shear Adhesive Strength | IS 15477: 2019 |
| 166. | | Slip Test | IS 15477: 2019 |
| 167. | | Marking | IS 15477: 2019 |
| 168. | | Tensile Adhesive Strength | IS 15477: 2019 |
| 169. | Bentonite | Density | IS: 2720 (Part-3): 1980 |
| 170. | Bentonite | Free Swell Index | IS: 2720 (Part- 40): 1977 RA 2021 |
| 171. | Bentonite | Gel Formation Index | IS: 6186: 1986 RA 2024 |
| 172. | Bentonite | Liquid Limit | IS: 2720 (Part-5): 1985 RA 2020 |
| 173. | Bentonite | Marsh Cone Viscosity | ASTM D6910: 2019 |
| 174. | Bitumen Emulsion | Coagulation of Emulsion | IS 8887: 2018 |
| 175. | Bitumen Emulsion | Ductility | IS 1208 : Part 1 : 2023 |
| 176. | Bitumen Emulsion | Miscibility with Water | IS 8887: 2018 |
| 177. | Bitumen Emulsion | Particle Charge | IS 8887: 2018 |
| 178. | Bitumen Emulsion | Penetration Test | IS 1203: 2022 |
| 179. | Bitumen Emulsion | Residue by Evaporation | IS 8887: 2018 |
| 180. | Bitumen Emulsion | Residue on 600-micron Sieve | IS 8887: 2018 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 181. | Bitumen Emulsion | Solubility In Trichloroethylene | IS 1216: 2023 |
| 182. | Bitumen Emulsion | Stability to Mixing with Cement | IS 8887: 2018 |
| 183. | Bitumen Emulsion | Storage Stability after 24h | IS 8887 : 2018 |
| 184. | Bitumen Saturated Felts and Woven Fabrics for Roffing and Waterproofing | Tensile strength, L&T Direction | ASTM D 146, IS 13826: 2004 |
| 185. | Bitumen Mix Material (BM/DBM/BC) | Bitumen Content | IRC SP-11 / ASTM D 2172: 1988 |
| 186. | | Combined Elongation and Flakiness | IS 2386 (P-1): 1963 RA 2021 |
| 187. | | Flow Value | ASTM D-6927: 2015 |
| 188. | | Impact Test | IS 2386 (P-4) : 1963 RA 2021 |
| 189. | | Los Angeles Abrasion | IS 2386 (P-4) : 1963 RA 2021 |
| 190. | | Marshall Stability | ASTM D-6927: 2015 |
| 191. | | Stripping Value | IS 6241: 2024 |
| 192. | | Theoretical Maximum Specific Gravity | ASTM D 2041 : 2019 |
| 193. | | Gradation (Grain Size Analysis) | IS 2720 (P-4) : 1985 RA 2020 |
| 194. | | Density | ASTM D 2726:2010 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 195. | Hardened Concrete | Compressive Strength-Core/Cube | IS 516 (Part 4): 2018 / IS 516: (P-1/S-1) 2021 |
| 196. | Concrete Cube, Core, Beam | Drying Shrinkage | IS: 516 (Part-6):2020 |
| 197. | Concrete Cube, Core, Beam | Moisture Movement | IS: 516 (Part-6): 2020 |
| 198. | Concrete Cube, Core, Beam | Rapid Chloride Ion Permeability Test | ASTM C 1202: 2017 |
| 199. | Concrete Cube, Core, Beam | Surface Water Absorption | IS: 516 (Part-2 / Sec-2): 2022 |
| 200. | Concrete Cube, Core, Beam | Water Permeability Test | IS: 516 (Part-2 / Sec-1): 2018 |
| 201. | Concrete Cube, Core, Bream | Water Permeability Test | DIN1048 (Part- 5): 1997 |
| 202. | DBM/BC/PC/BM | Bitumen Content | ASTM D2172: 2005 |
| 203. | Grout /GP-2 | Consistency | IS 4031(P-4): 1988 RA 2019 |
| 204. | Grout/GP-2 | Compressive Strength | ASTM C 109: 2002 |
| 205. | Grout/GP-2 | Setting Time Final | IS 4031(P-5) : 1988 RA 2019 |
| 206. | Grout/GP-2 | Setting Time Initial | IS 4031 (P-5) : 1988 RA 2019 |
| 207. | Grouts for Filling of Joints of Tiles and Stones | Abrasion Resistance | IS 17190: 2020 |
| 208. | | Chemical Resistance | IS 17190: 2020 |
| 209. | | Compressive Strength | IS 17190: 2020 |
| 210. | | Flexural Strength | IS 17190: 2020 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 211. | | Linear Shrinkage | IS 17190 : 2020 |
| 212. | | Transverse Deformation | IS 17190: 2020 |
| 213. | | Water Absorption after 240 minutes | IS 17190: 2020 |
| 214. | | Water absorption after 30 minutes | IS 17190: 2020 |
| 215. | Paving Bitumen | Absolute viscosity | IS 1206(P-3): 2021 |
| 216. | Paving Bitumen | Ductility Test | IS 1208 : Part 1 : 2023 |
| 217. | Paving Bitumen | Kinetmatic Viscosity | IS 1206 (P-3):2021 |
| 218. | Gypsum Plaster, Concrete And Products | Expansion on setting | IS:2542 (Part-1) (sec-9) 2023 |
| 219. | | Mechanical Resistance of set neat plaster | IS:2542 (Part-1) (sec-7) 2023 |
| 220. | | Residue on150 micron IS sieve | IS:2542 (Part-1) (sec-8) 2023 |
| 221. | | Setting Time | IS:2542 (Part-1) (sec-3) 2023 |
| 222. | | Soundness | IS:2542 (Part-1) (sec-6) 2023 |
| 223. | | Transverse Strength | IS:2542 (Part-1) (sec-4) 2023 |
| 224. | Polymer and Rubber Modified Bitumen | Softening point | IS 1205: 2022 |
| 225. | | Flash Point | IS 1209: 2021 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 226. | CRMB/PMB/NRMB | Elastic Recovery of Half thread in Ductilometer | IS 15462: 2019 |
| 227. | | Elastic Recovery of Half Thread in Ductilometer After Thin Film Oven | IS 15462: 2019 |
| 228. | | Penetration | IS 1203: 2022 |
| 229. | | Separation, Difference in Softening Point | IS 15462: 2019 |
| 230. | Polymer and Rubber Modified Bitumen CRMB/PMB/NRMB | Solubility In Trichloroethylee | IS 1216: 2023 |
| 231. | Polymer and Rubber Modified Bitumen CRMB/PMB/NRMB | Viscosity at 150 Degree Celsius | IS 1206 (Part 3):2021 |
| 232. | Precast Concrete Manhole Cover and Frame | Dimensions | IS 12592 : 2002 RA 2018 |
| 233. | Precast Concrete Manhole Cover and Frame | Load Test | IS 12592: 2002 RA 2018 |
| 234. | Water Proofing Compound | Compressive Strength | IS: 4031 (Part-6): 1988 RA 2019 |
| 235. | Water Proofing Compound | Setting Time Final | IS: 4031 (Part-5): 1988 RA 2019 |
| 236. | Water Proofing Compound | Setting Time Initial | IS: 4031 (Part-5): 1988 RA 2019 |
| 237. | Water Proofing Compound | Chloride content | IS: 6925 – 1973 RA 2018 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 238. | Water Proofing Compound | Water Permeability Test | IS: 2645: 2003 RA 2022 |
| 239. | White Cement Based Polymeric Putty | Cement Content | Annex B of IS: 5410-2013 RA 2018 |
| 240. | | Degree of Whiteness | Annex B of IS: 8042 - 2015 |
| 241. | | Setting Time Final | IS 17545: 2021 |
| 242. | | Setting Time Initial | IS 17454: 2021 |
| 243. | | Polymer Content | IS 17545: 2021 |
| 244. | | Tensile adhesion Strength at 14 Days | IS 17545: 2021 |
| 245. | White Cement Based Polymeric Putty | Water Retentivity | IS 17545: 2021 |
| 246. | Micro Silica/Silica Fume | Compressive Strength | IS 1727: 1967, RA 2018 |
| 247. | Micro Silica/Silica Fume | Sieve Analysis at 45 Micron | IS 1727 : 1967,RA 2018 |
| 248. | Micro Silica/Silica Fume | Specific surface | IS 15388:2003 RA 2022 (BET method) |
| 249. | Cement Concrete Flooring Tiles | Dimensions (Length) | IS 1237 : 2012,(RA 2022) |
| 250. | | Dimensions (Width) | IS 1237 : 2012,(RA 2022) |
| 251. | | Dimensions (Thickness) | IS 1237: 2012, (RA 2022) |
| 252. | | Flatness of the Tile Surface | IS 1237: 2012, (RA 2022) |

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| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 253. | | Perpendicularity | IS 1237: 2012, (RA 2022) |
| 254. | | Resistance to wear | IS 1237: 2012, (RA 2022) |
| 255. | | Straightness | IS 1237: 2012, (RA 2022) |
| 256. | | Thickness Of Wearing Layer | IS 1237: 2012, (RA 2022) |
| 257. | | Water Absorption | IS 1237: 2012, (RA 2022) |
| 258. | | Wet Transverse Strength | IS 1237: 2012, (RA 2022) |
| 259. | Ceramic Tiles (Vitrified/Glazed/Unglazed) | Dimensions | IS 13630 (part 1): 2019 |
| 260. | Ceramic Tiles (Vitrified/Glazed/Unglazed) | Modulus Of Rupture | IS 13630 (Part 6) : 2019 |
| 261. | Ceramic Tiles (Vitrified/Glazed/Unglazed) | Water Absorption | IS 13630 (Part 2) : 2019 |
| 262. | Ceramic Tiles | Breaking Strength | IS 13630 (Part 6): 2019 |
| 263. | Ceramic Tiles | Crazing Resistance of Glazed Tile | IS: 13630 (Part- 9): 2019 |
| 264. | Ceramic Tiles | Dimensions (Length, Width and Thickness) | IS 13630 (part 1): 2019 |
| 265. | Ceramic Tiles | Impact Resistance Test | IS: 13630 (Part-14): 2019 |
| 266. | Ceramic Tiles | Modulus of Rupture | IS 13630 (Part6): 2019 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 267. | Ceramic Tiles | Moisture Expansion using Boiling Water | IS: 13630 (Part-3): 2019 |
| 268. | Ceramic Tiles | Scratch Hardness | IS 13630 (Part13): 2019 |
| 269. | Ceramic Tiles | Water Absorption | IS 13630 (Part2): 2019 |
| 270. | Chequered Cement Concrete Tiles | Resistance to wear | IS 13801 : 2013, (RA 2018) |
| 271. | | Dimensions (Thickness) | IS 13801 : 2013, (RA 2018) |
| 272. | | Dimensions (Length) | IS 13801 : 2013, (RA 2018) |
| 273. | | Dimensions (Width) | IS 13801 : 2013, (RA 2018) |
| 274. | | Flatness of the Tile Surface | IS 13801 : 2013, (RA 2018) |
| 275. | Chequered Cement Concrete Tiles | Perpendicularity | IS 13801: 2013, (RA 2018) |
| 276. | | Straightness | IS 13801 : 2013, (RA 2018) |
| 277. | | Thickness Of Wearing Layer | IS 13801 : 2013, (RA 2018) |
| 278. | | Water Absorption | IS 13801 : 2013, (RA 2018) |
| 279. | | Wet Transverse Strength | IS 13801 : 2013, (RA 2018) |
| 280. | Gypsum Plaster Boards – Plain & Coated/Laminated | Dimension-Length/Width/Thickness | IS 2095 (P-1): 2023 & IS 2095 (P-2) : 2022 |
| 281. | Gypsum Plaster Boards – Plain & Coated/Laminated | Density | IS 2095 (P-1): 2023 |

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| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 282. | Gypsum Plaster Boards – Plain & Coated/Laminated | Flexural Breaking Load | IS 2095 (P-1): 2023 |
| 283. | Gypsum Plaster Boards – Plain | Impact resistance | IS 2095 (P-1): 2023 |
| 284. | Gypsum Plaster Boards – Plain | Surface Hardness | IS 2095 (P-1): 2023 |
| 285. | Gypsum Plaster Boards – Plain | Water Absorption | IS 2095 (P-1): 2023 |
| 286. | Gypsum Plaster Boards – Plain & Coated/Laminated | Finish | IS 2095 (P-1): 2023 & IS 2095 (P-2) : 2022 |
| 287. | Safety Glass (Flat/Toughened) | Dimension & Squareness | IS: 2553 (P-1) 2018 |
| 288. | Safety Glass (Flat/Toughened) | Thickness | IS: 17004 – 2018 RA 2024 |
| 289. | Safety Glass (Flat/Toughened) | Fragmentation Test | IS: 17004 – 2018 RA 2024 |
| 290. | Safety Glass (Flat/Toughened) | Flatness | IS: 17004 – 2018 RA 2024 |
| 291. | Safety Glass (Flat/Toughened) | Resistance to shock | IS: 17004 – 2018 RA 2024 |
| 292. | Concrete Hollow/Solid Block | Compressive Strength | IS 2185 (P-1) 2005 RA 2020 (Annex-D) |
| 293. | Concrete Hollow/Solid Block | Density | IS 2185 (P-1) 2005 RA 2020 (Annex-C) |
| 294. | Concrete Hollow/Solid Block | Dimension-Height | IS 2185(P-1), 2005 RA 2020 Annex-C |
| 295. | Concrete Hollow/Solid Block | Dimension-Length | IS 2185(P-1) 2005 RA 2020 Annex-C |
| 296. | Concrete Hollow/Solid Block | Dimension-Width | IS 2185(P-1) 2005 RA 2020 Annex-C |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 297. | Concrete Hollow/Solid Block | Water Absorption | IS 2185 (P-1) 2005 RA 2020 Annex-E |
| 298. | Concrete Fresh (Design Mix) | Slump | IS 9103 – 1999 RA 2018, IS 1199 : 2018 |
| 299. | Concrete Fresh (Design Mix) | Compressive Strength | IS 516 P-1/Sec-1: 2021 |
| 300. | Concrete Fresh (Design Mix) | Compressive Strength | IS 516: 1959, (RA 2018) |
| 301. | AAC Block Adhesive | Bulk Density | IS 2386 (P-3): 1963 RA 2021 |
| 302. | AAC Block Adhesive | Compressive Strength | IS: 2250 1981 RA 2020 |
| 303. | AAC Block Adhesive | Open Time | IS 15477: 2019 |
| 304. | AAC Block Adhesive | Split Tensile Strength | ASTM C-1660 |
| 305. | Fine Aggregate | Fineness Modulus | ASTM C -136 (Cl.9.2) |
| 306. | Sewer Brick | Dimension height | IS 4885: 1988 RA 2020 |
| 307. | Sewer Brick | Dimension length | IS 4885: 1988 RA 2020 |
| 308. | Sewer Brick | Dimension width | IS 4885: 1988 RA 2020 |
| 309. | Sewer Brick | Efflorescence | IS 3495 (P-3) 2019 |
| 310. | Sewer Brick | Water absorption | IS 3495 (P-2) 2019 |
| 311. | Sewer Brick | Compressive strength | IS 3495 (P-1) 2019 |
| 312. | Unglazed ceramic vitreous acid resistance tile | Breaking strength | IS 4457 – 2007 RA 2022 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 313. | Unglazed ceramic vitreous acid resistance tile | Dimension (length, width, thickness) | IS 4457 – 2007 RA 2022 |
| 314. | Unglazed ceramic vitreous acid resistance tile | Modulus of rupture | IS 4457 – 2007 RA 2022 |
| 315. | Unglazed ceramic vitreous acid resistance tile | Water absorption | IS 4457 – 2007 RA 2022 |
| 316. | Unglazed ceramic vitreous acid resistance tile | Resistance to chemicals | IS 4457 – 2007 RA 2022 |
| 317. | Unglazed ceramic vitreous acid resistance tile | Resistance to concentrated HNO3 & H2SO4 | IS 4457 – 2007 RA 2022 |
| 318. | Kerb Stone | Bending strength | IS 5758 - 2020 |
| 319. | Kerb Stone | Dimensions | IS 5758 - 2020 |
| 320. | Kerb Stone | Water absorption | IS 5758 - 2020 |
| 321. | Sanitary Appliances (WC Pans, Wash Basins, Laboratory Sinks and Drinking Fountains, Flushing Cisterns and Covers, Bidets, Squatting Pans, Urinals, Partition Plates, Pedestals, Short Pedestals and Accessories) | Thickness | IS 2556 (Part 1) : 2021 |
| 322. | | Tolerances | IS 2556 (Part 1) : 2021 |
| 323. | | Water Absorption | IS 2556 (Part 1) : 2021 |
| 324. | | Chemical Resistance | IS 2556 (Part 1) : 2021 |
| 325. | | Resistance to Staining and Burning | IS 2556 (Part 1) : 2021 |
| 326. | Sanitary Appliances (Wash | Patterns and Sizes | IS 2556 (Part 4) : 2004 |

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|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Infrastructure & Construction Material** | | |
| 327. | Basins) | Dimensions and Tolerances | IS 2556 (Part 4) : 2004 |

| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Soil & Rock** | | |
| 1. | Soil | California Bearing Ratio | IS 2720 (Part 16): 1987 RA 2021 |
| 2. | | Grain Size Analysis (63 to 0.075 mm size) | IS 2720 (Part 4): 1985 RA 2020 |
| 3. | | Heavy Compaction (MDD) | IS 2720 (Part 8): 1983 RA 2020 |
| 4. | | Heavy Compaction (OMC) | IS 2720 (Part 8): 1983 RA 2020 |
| 5. | | Light Compaction (MDD) | IS 2720 (Part 7): 1980 (RA 2021) |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Soil & Rock** | | |
| 6. | | Light Compaction (OMC) | IS 2720 (Part 7) :1980, (RA 2021) |
| 7. | | Liquid Limit | IS 2720 (Part 5) :1985 RA 2020 |
| 8. | | Plastic Limit | IS 2720 (Part 5) :1985 RA 2020 |
| 9. | | Specific Gravity | IS 2720 (Part3/Sec1): 1980 RA 2021 |
| 10. | | Unconfined Compressive Strength | IS 2720 (Part-10):1991 RA 2020 |
| 11. | | Water Content by Oven Drying | IS 2720 (Part 2) :1983 RA 2020 |
| 12. | Soil, Fly Ash, GSB, WBM, WMM, Blanketing Material | Free Swell Index | IS: 2720 (Part-40): 1977 RA 2021 |
| 13. | Bentonite | Moisture Content | IS 6186: 1986 RA 2024 |
| 14. | | Sand Content | IS 6186: 1986 RA 2024 |
| 15. | | Swelling Power | IS 6186: 1986 RA 2024 |
| 16. | GSB (Granular Sub-Base), WMM (Wet Mix Macadam), WBM (Water Bound Macadam), and CRM (Crumb Rubber Modified Bitumen) | Flakiness Index | IS 2386 (P-1): 1963, RA 2021 |
| 17. | | Grain Size Analysis | IS 2386 (P-1) : 1963, RA 2021 |
| 18. | | Impact Value | IS 2386 (P-4) : 1963, RA 2021 |
| 19. | | Liquid Limit | IS 2720 (P-5): 1985, RA 2020 |
| 20. | | Loss Angles Abrasion Value | IS 2386 (P-4) : 1963, RA 2021 |
| 21. | | Maximum Dry Density | IS 2720 (P-8) : 1980, RA 2020 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Soil & Rock** | | |
| 22. | | Optimum Moisture Content | IS 2720 (P-8) : 1980, RA 2020 |
| 23. | | Plastic Limit | IS 2720(P-5) : 1985, RA 2020 |
| 24. | | Water Absorption | IS 2386 (P-3) : 1963, RA 2021 |
| 25. | | C.B.R Value | IS 2720 (P-16) : 1987, (RA 2021) |
| 26. | | Elongation Index (Max. size 50 mm) | IS 2386 (P-1) : 1963, RA 2021 |
| 27. | Soil | Dry Density of Soil (By Core Cutter method) | IS 2720 (P-29) : 1975, RA 2020 |
| 28. | SOIL/GSB/WMM/WBM | Dry Density of Soil (By Sand replacement Method) | IS 2720 (P-28): 1974, RA 2020 |
| 29. | Natural Building Stone (Marble/Granite/Stone) | Apparent Porosity | IS 1124: 1974, (RA 2017) |
| 30. | | Compressive Strength | IS 1121 (Part 1): 2023 |
| 31. | | Dry Density | IS 13030: 1991, RA 2021 |
| 32. | | Moh's Hardness | IS 13630 (P-13):2019 |
| 33. | Natural Building Stone (Marble/Granite/Stone) | Moisture Content | IS 13030: 1991, RA 2021 |
| 34. | | Specific Gravity | IS 1124: 1974 RA 2017 |
| 35. | | Water Absorption / Moisture Absorption | IS 1124: 1974, (RA 2017) |
| 36. | Rock / Natural Stone | Durability | IS: 1126: 2013 RA 2023 |
| 37. | | Resistance to wear | IS: 1706:2024 |

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| Mechanical Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Soil & Rock** | | |
| 38. | | Transverse Strength | IS: 1122 (Part-2): 2013 |

| Non-Destructive Testing | | | |
|---|---|---|---|
| **Sl. No.** | **Product(s)/Material of Test** | **Specific Tests Performed** | **Test Method** |
| | **Building Materials - Reinforced Concrete Structures** | | |
| 1. | Concrete | Ultrasonic Pulse Velocity | IS 516 (P-5/Sec-1): 2018 |
| 2. | Hardened Concrete | Crack Depth by Ultrasonic Pulse Velocity | IS:516(Part-5/Sec-1) 2018 |
| 3. | Reinforcement Concrete | Rebound Hammer | IS 516 (P-5/Sec 4): 2020 |