

IS 7092 (Part 1) : 1992 ALUMINIUM ALLOY TUBES FOR IRRIGATION PURPOSES - SPECIFICATION PART 1 WELDED TUBES

India is an **agricultural country**, with a long history of farming dating back to the Neolithic period. Agriculture employs more than 50% of the Indian workforce and contributes significantly to the country's GDP. India is a major player in the global agriculture sector, producing a wide range of crops and agricultural products.

One of the major requirements for Agriculture to survive is the good irrigations system. To meet this Bureau of Indian Standards has formulated Aluminium Alloy Tubes for Irrigation Purposes – Specification Part 1 Welded Tubes. This standard covers the reequipment for Electric resistance welded aluminium alloy tubes used for irrigation (including sprinkler irrigation) purposes and suitable for a maximum working pressure of 10 kgf/cm² for diameters up to and including 200 mm.

This standard covers the requirement like **Dimensions for size range of 50 to 200 mm, which include Outside Diameter, Ovality and Wall thickness. Grades with Chemical Composition of 31000, 31500, 40800, 51300, 52000, 53000 and 55000** as per IS 737 : 1986 are allowed in this standard.

These tubes are being used for continuous flow of water be Laminar or Turbulent. Therefore **Tensile Strength test and Flattening tests** are carried out on these tubes to check its strength to sustain the actual conditions. **Hydrostatic test** are carried out at check any leakage in pipes at high pressure application. These test helps to ensure the strength and flexibility of pipes under making these steels long lasting and durable and ensures high performance.