



IS 11947 : 1987

SPECIFICATION FOR SOFT MAGNETIC IRON RODS, BARS, FLATS AND SECTIONS

The Indian Standard **IS 11947:1987** specifies requirements for **cold-drawn soft magnetic** iron rods, bars, flats, and sections, primarily used for **electromagnetic applications** like relays or cores in **electrical machinery** and apparatus. It outlines essential requirements for supply of material, chemical composition, and physical conditions, ensuring quality and consistency. Mechanical properties specified includes a minimum **tensile strength** of 280 MPa and hardness between 55-70 HRB. **Magnetic properties** such as **coercive force** before and after **Ageing, magnetic induction**, and **remanence** are specified to optimize performance in magnetic applications. The standard mandates dimensional tolerances, including **straightness** and **roundness**. IS 11947 also includes guidelines for **sampling, Retesting, packaging** and **marking**.