

Summary of Indian Standard IS 8951: 2001

STEEL CAST BILLET INGOTS, BILLETS AND BLOOMS FOR PRODUCTION OF HIGH CARBON STEEL WIRE RODS — SPECIFICATION (First Revision)

IS 8951: 2001 is an Indian Standard that specifies the requirements for steel cast billet ingots, billets, and blooms used in the production of high carbon steel wire rods. The standard aims to ensure the quality of raw materials supplied to the industries like Farm implements, Wire ropes, cutting tools, dies, Springs etc.

The standard specifies five grades of steel (X, E, F, G, and H) which are categorized based on their chemical composition. The standard allows manufacturers discretion in the production process while mandating compliance with general supply requirements. Chemical composition ranges for constituents like carbon, manganese, silicon, sulphur etc. are specified, along with guidelines for sampling, testing, and permissible variations to ensure quality control.

Additionally, the standard establishes reference for freedom from defects, dimensions and tolerances for the products, with parameters like Bend and Camber for ensuring the uniformity in dimensions the supplied material. Optional tests for the microstructure related parameters like Macro examination, Inclusion content and Sulphur print tests are also given mutually agreed to between the purchaser and the manufacturer.

Requirements for marking, and details the information that purchasers must provide when placing an order to the manufacturer are specified to ensure supply of material conforming to above standards. In essence, IS 8951: 2001 promotes consistent quality in the production of high carbon steel wire rods.