



## **IS 7557 :1982 Specification For Steel Wire ( upto 20 mm) for the Manufacture of Cold-Forged Rivets**

Steel wire used for manufacturing cold-forged rivets is a type of high-quality wire specifically designed to withstand cold forging, a process where metal is shaped at room temperature into rivets without heating.

The principal characteristics of steel wire being used for manufacture of cold forged rivets are – **High ductility, Tensile Strength and Hardness, Surface Quality, Controlled Chemical Composition, Consistent Diameter and Tolerances.**

**Indian Standard IS 7557: 1982** specifies the requirements for steel wire (upto 20mm) for the manufacture of cold- forged rivets for structural purposes. The standard specifies chemical composition of elements present in the material which plays the important role in determining the mechanical properties (e.g. ductility and strength) of the material. The standard also mentions tensile strength of the material subjected to different heat treatment. Thus, tensile strength test, freedom from defects and dimensional test ensures that the product has the necessary strength and surface quality as per the end use of product.

The shear strength test and bend test in the standard is very important for determining the material's strength, durability, and overall performance, especially for materials used in structural, mechanical, and manufacturing applications. The marking and packaging requirement help customers to procure genuine product. Thus, IS 7557: 1982 provides assurance that the product that is being bought is safe, durable, and of high quality.

Next time you purchase, look for the BIS mark to ensure they meet these standards, giving you satisfaction that the product fulfils the quality for which is cost is being paid.