

IS 278: 2009 Galvanized Steel Barbed Wire for Fencing-Specification

Galvanized steel Barbed wire is a type of **fencing material** made from galvanized high-tensile steel wire. The wire features sharp **barbs** spaced along its length and is commonly used in agricultural settings, residential areas, and industrial sites. Easy installation, makes it an effective and robust security barrier against intruders and animals.

The quality parameters often prioritized by the consumers are **high corrosion resistance, wire gauge consistency, barb sharpness, tensile strength, ductility and uniform zinc coating.**

IS 278:2009 prescribes the requirements for two types of galvanized steel barbed wire with two strands of wire, in a number of sizes and constructions. It details the processes for **galvanization** for ensuring enhanced durability and resistance to rust and corrosion. Test for freedom from defects takes care of the wire's continuity in length, without scaling and splicing.

Sharp, evenly spaced barbs increase the wire's effectiveness as a deterrent. Quality control on the **barb spacing and sharpness** is key, as inconsistent spacing can compromise **security**. The manufacture clause addresses the formation of barbs, sharpness, adequate length & spacing and finish requirements so that the barbs are securely attached to the wire.

The **ductility** test requirements are given to check that the wire does not fracture or break during repeated **wrapping** and **unwrapping**.

Tensile tests parameters are specified to ensure **high tensile strength** which is required to withstand tension and pressure, especially in areas prone to livestock or wildlife interaction. A typical tensile strength range is given in **IS 278:2009**, which ensures flexibility of the wire without compromising strength.