

SUMMARY OF INDIAN STANDARD

IS 4223:1975

SPECIFICATION FOR STEEL WIRE FOR UMBRELLA RIBS

(FIRST REVISION)

This Indian Standard was first published in 1967 and subsequently revised in 1975. It covers the requirements for carbon steel round and flat steel wire used for umbrella ribs . However, it does not cover the requirements of hollow U-shaped ribs.

The standard classifies the wire into three grades, and specifies the chemical composition and mechanical properties of the steel wire.

The standard also specifies the dimensions of the wire (diameter and width in case of round and flat wires, respectively) as well as dimensional tolerances. It prescribes requirements for freedom from defects i.e. the wire shall be free from surface flaws, jagged edges etc.

The standard also prescribes the straightness and deflection tests which are intended to measure the bowing and departure from straightness in the wires.

The standard also prescribes that when the wires are supplied without protective coating, they shall be coated with oil for rust prevention during storage.

Finally, the standard specifies the manner of packing the wires as well as the marking information such as size, length and mass of the wires and the name of manufacturer which is to be marked on a tag attached to each coil or bundle.

By standardising the chemical, mechanical and dimensional parameters of the product, and also the packing and marking information, the Indian Standard can serve as an extremely useful tool for both manufacturers and users and can help ensure that umbrella ribs produced using wires conforming to this standard, are of the highest quality.

Given the importance of this product, the Ministry of Steel, Government of India has mandated compulsory BIS certification for steel wire used for umbrella ribs as per this Indian standard under the Steel and Steel Products (Quality Control) Order.

