

## **Summary on IS 12549:1988**

This standard covers the requirement of wrought **iron-nickel-cobalt alloy** in the form of **wire, rod, bar, strip and sheet** intended primarily for **sealing to glass**.

The general requirements relating to the supply of this material shall conform to IS 1387. The **iron-nickel-cobalt alloy** shall be supplied in any of the sizes -

**Wires, Rounds, Strips and Sheets** as per **Table 2** specified in the standard along with different finishes. Iron-nickel-cobalt sealing alloy supplied in various forms and finishes shall be **free from scales, corrosion, cracks, seams, scratches and other surface defects**. The material shall be uniform in **chemical composition, temper, finish and cross-section**. The desired **temper** of the material shall be specified in the purchase order as per **Table 4** specified in this standard.

### **TESTS**

Tests shall be carried out in accordance with the testing methods specified in this standard

**Chemical Composition**

**Length and Sizes**

**Straightness and Flats**

**Grain Size**

**Thermal Expansion**

**Transformation**

**Hardness**

**Tensile strength**

### **PACKING AND MARKING:**

**Wires and strips** supplied in coils shall be wrapped all around with a **polyethylene lined hessian cloth**. The coils shall be packed in **wooden cases** to avoid damage during transit.

Wires of **smaller diameter** supplied in **spools** shall be packed in **polyethylene bags** containing the required quantity of **desiccant for absorption of moisture**.

**Rods and sheets** supplied in **cut lengths** shall be covered with hessian and secured with **hoop iron** before packing in **wooden cases**.

The wooden cases shall be indelibly marked with the **manufacturer's name, mass, dimensions, batch number, description and purchase order reference**.