

**Bureau of Indian Standards**

**(Registration Department)**

**Summary of Indian standard**

**On**

**Welded Steel Wire Fabric for General Use - as per IS 4948 : 2020**

The welded steel wire fabric is used for purposes like fencing, window grills, and crates, owing to its strength and durability.

**Scope**

This standard covers the specifications for welded steel wire fabric intended for general uses, excluding concrete reinforcement.

**Requirements and Specifications**

1. **Materials:**
  - Mild Steel Wire: Must comply with IS 280.
  - Stainless Steel Wire: Should conform to grades X04 Cr17 Ni12 Mo2 or X04 Cr18 Ni10 of IS 6528.
2. **Manufacture of Mesh:**
  - Assembly: Wires should be precisely aligned and spaced, welded at each intersection.
  - Tolerance: Mesh size and sheet length tolerances are specified to maintain uniformity.
3. **Test for Welding:**
  - Weld Strength: Specifies minimum weld shear strength of 21 kg/mm<sup>2</sup>.
  - Frequency of Testing: Welds are tested on every 30,000 m<sup>2</sup> of manufactured fabric.
4. **Sampling and Testing:**
  - Tensile Strength, Bend Test, and Elongation: Sampled before or after fabrication with frequency specified based on production volume.
5. **Bundling and Packaging:**

- Flat Sheets: Grouped in bundles ( $\geq 150$  Sheets) for secure handling.
- Rolls: Secured to avoid damage during shipment.

6. **Marking:**

- Each bundle should include information such as manufacturer name, material description, mesh size, wire diameter, and other relevant details.

7. **Finish:**

- Wire fabric surfaces should be clean of rust or dirt etc.
- Anti-corrosive Treatment: Can be applied upon request.

**Ordering Information**

Guideline for ordering is specified, including purchaser requirements such as diameter, mesh size, and required dimensions.