

## IS 2589:1975 - Specification for Hard Drawn Steel Wire for Upholstery Springs

When purchasing **hard drawn steel wire for upholstery springs**, consumers prioritize factors like **strength, durability, flexibility, and resistance to fatigue**. High-quality steel wire is essential for ensuring that upholstery springs maintain their shape and support over time, contributing to **the comfort, longevity, and safety of furniture**. The wire used must withstand the pressure and stress of daily use for **high-quality furniture manufacturing**.

**IS 2589:1975**, developed by the **Bureau of Indian Standards (BIS)**, specifies the requirements for hard drawn steel wire used in upholstery springs. This standard outlines the material composition, mechanical properties, and testing procedures to ensure that the **wire meets the necessary safety and performance benchmarks**.

Key quality parameters addressed by IS 2589:1975 include:

- **Mechanical Properties:** The wire is required to have a **specific tensile strength, elongation, fatigue resistance** to sustain **repeated loading and unloading cycles** to **endure the forces applied by users while maintaining its integrity** which is crucial for maintaining the **durability and comfort of upholstered furniture**.
- **Surface Quality:** Standard specifies that it must be **free from defects such as cracks, pits, or scales** that could weaken its structural integrity. This ensures the wire is smooth and uniform, improving both its performance and the safety of the furniture.
- **Coating and Corrosion Resistance:** Steel Wire may be coated to enhance its resistance to corrosion so that the wire can maintain its strength and appearance over time, even under humid or harsh conditions.
- **Dimensions and Tolerances:** The standard specifies the allowable tolerances for the wire's diameter, ensuring **uniformity and compatibility with other components in the furniture assembly**. Proper dimensions are critical for ensuring that the springs perform as intended and fit seamlessly into the design.

**Consumers** can be assured that hard drawn steel wire compliant with IS 2589:1975 is manufactured to the highest quality standards, **designed for durability, comfort, and safety**. The **BIS Quality Mark ( ISI mark)** on the wire guarantees that it has undergone rigorous testing and meets the performance requirements for use in upholstery springs.

In conclusion, IS 2589:1975 ensures that the **hard drawn steel wire used in upholstery springs is strong, durable, and resistant to wear and tear, providing reliable performance in furniture applications**. When purchasing materials for **furniture manufacturing**, always look for **the BIS Mark** to confirm the product meets these stringent standards, ensuring long-lasting comfort and safety for end-users.