

## **Specification for cold - rolled steel strips for springs (IS 2507:1975)**

Cold Rolled Steel Strip for springs is manufactured using a cold-rolling process, which involves rolling the steel at room temperature to achieve the desired thickness and mechanical properties.

Cold Rolled Steel Strip is a crucial material for production of springs which is used in various applications, including automotive springs, industrial springs, furniture springs, and appliances. High-quality parameters such as high strength and durability, consistent dimensions, good surface finish, resistance to corrosion, resistance to fatigue and reliability in performance are required for this product to perform its intended work.

To ensure these expectations are met, Indian Standard IS 2507, developed by the Bureau of Indian Standards (BIS), outlines the quality and performance requirements as stated above for Cold-rolled steel strips for springs. This standard specifies requirements for chemical composition, mechanical properties, dimensions, surface finish, and testing. For instance, it defines minimum values for tensile strength, yield strength, and elongation, and specifies tolerances for thickness, width, and length. Additionally, it requires a smooth, clean surface and outlines coating requirements to prevent corrosion. By complying with IS 2507:1975, manufacturers guarantee reliable performance, consistent quality, improved safety, reduced maintenance, and increased lifespan.

Ministry of Steel Quality Control Order (QCO) mandates that Cold-rolled steel strips for springs, manufactured, or imported in India comply with IS 2507 and display the BIS Standard Mark, ensuring high-quality cold-rolled steel strips for springs manufacturing.

To ensure the quality and reliability of cold-rolled steel strips for springs, look for products that comply with Indian Standard IS 2507.