**IS 11513 : 2017**

**Hot Rolled Carbon Steel Strip For Cold Rolling Purposes — Specification**

**Hot Rolled Carbon Steel Strip** is essential in the manufacturing industry, serving as one of the primary feedstock for cold rolling processes. First, the steel is heated and rolled at high temperatures to make it more pliable and evenly thick. This prepared material is then cold-rolled at room temperature, resulting in precise dimensions, improved surface finish, and superior mechanical properties. The resulting cold rolled steel is crucial for applications demanding high precision and exceptional surface quality.

**IS 11513:2017** covers the requirements for hot-rolled carbon steel strips having **carbon content up to a maximum of 0.35 percent and intended for cold rolling**. This standard was first published in 1985 and subsequently revised in 2011 and 2017.

**16 grades** of hot rolled carbon steel strips are covered in the IS with designations **CR0** through **CR15** corresponding to different quality and chemical composition.

IS 11513:2017 specifies the chemical composition during ladle analysis and permissible variation during product analysis. As per requirement of the IS, the steel shall be free from amounts of **segregation, laminations, surface flaws and other defects** which are detrimental to subsequent processing and ultimate use. The standards refers to IS 1730 for dimensions and tolerances and to IS 16160 for **permissible width variations**. Key specification include tolerance on **Crown** (difference in sheet thickness from centre to edge) and **Edge Camber**.

The **Ministry of Steel Quality Control Order** mandates that all **Hot Rolled Carbon Steel Strip For Cold Rolling Purposes** sold, manufactured or imported in India comply with IS 11513:2017 and covered under BIS certification scheme.