

SUMMARY OF INDIAN STANDARD

IS 10748:2004

Hot - Rolled steel strip for welded tubes and pipes - Specification

(Second Revision)

This Indian Standard was first published in 1984 and subsequently revised in 1995, and 2004. It covers the requirements for weldable quality hot rolled carbon steel strips in coils intended for the manufacture of welded steel tubes and pipes.

The standard classifies the strips into six grades. For each of these grades, chemical composition and mechanical properties are defined.

The standard also specifies the dimensions of the strip as well as dimensional tolerances. It prescribes requirements for freedom from defects i.e. the strip shall be free from surface flaws, laminations and segregations etc.

It also prescribes requirements for the condition of coils i.e. that the coils can be supplied with milled or slit edges but if supplied with mill edges, the depth of defects from the edges is also specified.

Further, it also specifies the different treatments that can be given to the material e.g. it can be with a skin pass (passing it through skin pass rolling mill, usually to improve surface finish), or pickling (chemical treatment to remove scale and grease etc.), or oiling, or annealing/normalising (heat treatments to improve finish and properties of the product).

It also specifies the requirements for packing of the coil e.g. there should not be folding at ends, and telescopicity, which is a defect which occurs in the strip coiling phase resulting in the edges of the strips getting misaligned, should not be more than 100 mm.

Finally, the standard specifies the marking information such as name or trademark of the manufacturer, grade of steel, cast or identification mark size and mass of coils which is to be marked on the outside or inside of each coil.

By standardising the chemical, mechanical and dimensional parameters of the product, and also the packing and marking information, the Indian Standard can serve as an extremely useful tool for both manufacturers and users and can help ensure that tubes and pipes produced using strips conforming to this standard, are of the highest quality.

Given the importance of this product, the Ministry of Steel, Government of India has mandated compulsory BIS certification for hot rolled carbon steel strips in coils intended for the manufacture of welded steel tubes and pipes as per this Indian standard under the Steel and Steel Products (Quality Control) Order.

