

Summary of Indian Standard IS 15647:2006

Hot Rolled Steel Narrow Width Strip for Welded Tubes and Pipes

One of the methods to manufacture Steel Tubes and Pipes are by welding steel sheet/strip into a cylindrical shape. The Indian Standard IS 15647:2006 provides for specification of hot rolled steel narrow width strip for welded tubes and pipes for manufacture of steel pipes and tubes for non-critical applications such as low pressure water and furniture purpose.

The hot rolled steel narrow width strip which will be subjected to welding for manufacturing steel pipes and tubes should possess Mechanical properties such as bending properties to be able to be bended for welding, but at the same time should be able to demonstrate Mechanical Strength for durability during end use. Chemical composition of the steel also becomes critical for the durability. Dimensional accuracy is also crucial, as pipes must adhere to specific thicknesses, diameters, and lengths for proper fit and function in construction and industry.

The standard specifies different grades of chemical composition of steel which are to be used for manufacturing. To ensure that the iron pipes and tubes made out of the hot rolled steel strip possess the flexibility and endure the strength needed, the standard specifies for Mechanical Strength parameter such as Tensile Strength, Percentage Elongation and Bend Test. The standard specifies dimensions and tolerances on the dimensions for dimensional accuracy. The standard also specifies that the steel should be free from defects which are detrimental to subsequent processing and ultimate use.