

Summary of IS 11587: 1986

Specification for Structural Weather Resistant Steel

IS 11587 is an **Indian Standard** that provides the specifications for **structural weather-resistant steel**. This type of steel is specifically designed to resist the effects of atmospheric corrosion, especially when exposed to outdoor environments. The primary objective is to extend the service life of structures by minimizing corrosion and maintenance requirements.

In formulating this standard, assistance has been derived from **ISO 4952-1981 'Structural steels with improved atmospheric corrosion resistance'**, issued by the International Organization for Standardization.

This standard covers the requirements for **high strength low alloy weather resistant structural steels** in the form of plates, strips, sections and bars for **welded, riveted or bolted construction** requiring atmospheric **corrosion resistance**.

The standard outlines the different types of **Grades and testing procedures** for the **chemical composition** and **mechanical properties** of the steel. The standard is elaborating composition of each and every elements for different grades. The **mechanical properties** includes **tesnsile strength, Yield strength** and **elongation** for each and every form of products including dimensional requirements. **Bend test requirement** with Bending angle and internal bend diameter for every form of products is also addressed in the standard.

In short, **IS 11587** provides comprehensive guidelines for using **weather-resistant steel** in **structural applications**. It ensures that the material meets specific chemical, mechanical, and durability requirements, making it suitable for use in infrastructure that must withstand the elements over time.