

High Strength Low Alloy 500 And 550 Steel

This technology, High Strength Low Alloy Steel is a type of microalloyed steel that provides better mechanical properties and greater resistance to corrosion than carbon steel. The primary beneficial properties of this steel include yield strengths of 500 and 550 MPa, malleability that can accommodate flattening to a minimum thickness of 2-3 mm, the ability to bend at a 1t radius with 17% elongation values, and weldability without pre or post-heating treatments. The primary differentiating factors as compared to that of other HSLA steel products are that, together with the preceding properties, the product is also corrosion resistant and can endure low temperature toughness of 35 J/sq.cm at -50 deg. Centigrade.

Salient features:

- The steel has high strength to weight ratio
- The steels are weathering steels
- The steel has good formability with 1t bend radius & 17 per cent min. elongation values
- The steel has low temperature toughness of 35J/sq.cm at sub zero temperatures.

Areas of application

Manufacturing of automobiles, bridges etc.

End users

Automotive industry, shipbuilding industry and bridge construction companies