
Material Specification Sheet Hot Rolled Sheets

Description

Hot-rolled carbon steel sheet starts out as a Hot-rolled Band that gets temper rolled, and mill edged. It is available as a Pickled and Oiled product as well. It is an uncoated product (has no corrosion resistance coating) but can withstand moderate forming and/or bending. Unless otherwise specified it has a carbon content of less than 0.15%.

Mechanical Properties

Typical mechanical properties for CS-B hot rolled steel sheet are listed below.

- Yield Strength: 36 ksi
- Tensile Strength: 51 ksi
- Elongation: 38%
- Hardness: 61 RB

ASTM Specifications

ASTM Designation A569/A1011 outlines the general requirements for hot rolled carbon steel sheet metal. A569/A1011 designates tolerances for thickness, width, camber, shape, etc. Included in this specification are steel chemistry requirements and typical mechanical properties of the various metallurgical grades.

Applications

Many unexposed structural applications exist in automotive, appliance and manufacturing markets. These include frame components, brackets, brake components, wheels, clutch plates, tubing and compressor shells. Construction, industrial machinery, agricultural equipment, railroad, and ship building are all areas where Hot Rolled Sheets are used for panels, frames and component parts.

Source: AK Steel

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