

A36

Carbon Steel

DESCRIPTION:

ASTM A36 is the most common grade of structural quality, mild carbon steel.

This low-carbon grade of steel provides good machining, welding, and forming characteristics. Unlike stainless, A36 carbon steel does not show good corrosion resistance without a coating. A36 Steel can be laser welded to produce sharp cornered profiles such as hollow structural steel, tees and custom shapes.

APPLICATIONS:

- Structurally Exposed Steel
- Architectural Steel Profiles
- Tank Supports
- Construction
- Machinery

CHEMICAL COMPOSITION:

Carbon	0.25 - 0.29
Copper	0.20
Iron	98.0
Manganese	1.03
Phosphorus	0.04 max
Silicon	0.28 max
Sulfur	0.050 max

*MECHANICAL PROPERTIES:

Yield Strength	36 KSI min
Tensile Strength	58 - 80 KSI min
Elongatin	23%
Hardness	67 - 83 Rockwell

* Laser Fused Profiles (ASTM A1069) are produced to meet a 35 KSI Min Yield or higher, depending on strength grade specified.

STAINLESS STRUCTURALS CAN PRODUCE THIS ALLOY IN BEAMS, CHANNELS, ANGLES, TEES AND CUSTOM SHAPES.

Disclaimer:

The information on the stainless alloy data sheets are accurate to the best of our knowledge, but are intended for general information only. Applications suggested for the different alloys are listed only to help our customers make their own decisions. These are neither guarantees nor warranties on material uses. Data referring to chemical composition and mechanical properties are industry norms at the typical state of the alloys tested. These properties can change in different environments, temperatures, applications and so forth. Stainless Structural assumes no responsibility or liability for the information given.

