wenext

Material Description

Q235 Steel

Q235 steel is a carbon structural steel. The Q stands for yield strength. Normally, the steel is used directly without heat treatment.

Advantages

Yield point will decrease when the thickness of the material increases. Due to the moderate carbon content, it has good comprehensive performance, strength, plasticity and welding properties are well harmonized, which make it the more commonly used steel.

Disadvantage

——

Tolerance

0.025/0.05/0.1mm

Recommendation

Special purpose carbon steel, such as bridge steel and ship steel.

Attention

If there is included angle in model structure, we will make it an R angle by default. Please communicate with account manager if you need the included angle in your model.

Attributes

Tensile strength: ⩾360Mpa
Yield Strength: ⩾235 Mpa
Elongation δ5 (%): ⩾26
Hardness: 207HB

Shrinkage Rate:	⩾27
Density:	7.85g/cm3
Modulus of Elasticity:	210GPa
Poisson’s ratio:	0.33

Applications

Bridges, Communication Tools, Machine tools, Molds, etc.

These products are widely used in construction and engineering welded structures, to make steel bars or build factory buildings, high voltage transmission towers, bridges, vehicles, boilers, containers, ships, etc., and also used as a mechanical part with less demanding performance. C & D grade steel could be used as professional steel. Beides, it can be used for various mold handles and other non-critical mold parts