



### **JIS G4051 S35C steel works/steel structures/steel machining parts**

S35C steel is high quality carbon structural steel. S35C is usually used as mechanical structure after being cut, being grinded, or heat treatment process, etc. It has good plasticity and good strength. It has good performance in processing, and with good weld-ability. S35C steel is usually used in state of normalizing and tempering condition.

Delivery condition of S35C steel: hot rolled, forging, delivery condition with special requirement.

The chemical composition of S35C is:

C: 0.32-0.38, Si 0.15-0.35, Mn 0.6-0.9, P $\leq$ 0.03, S $\leq$ 0.035

Mechanical properties of S35C :

Tensile strength  $\sigma_b$  (MPa):  $\geq 530(54)$

Yield strength  $\sigma_s$  (MPa):  $\geq 315(32)$

Elongation  $\delta_5$  (%):  $\geq 20$

Reduction of area  $\psi$  (%):  $\geq 45$

Impact Akv (J):  $\geq 55$

impact roughness  $\alpha_{kv}$  (J/cm<sup>2</sup>):  $\geq 69(7)$

Hardness:  $\leq 197\text{HB}$  (without heat treatment)

The tolerance of S35C plate, flat bar and strip should be in accordance with JIS G3194 standard.

Usage:

S35C steel is widely used in the manufacture of all kinds of forging and hot pressing, cold drawn and forged steel. It is also used as parts in the production line of seamless steel pipe, used as crankshaft, connecting rod, shaft, shaft pin, leverage, beams, sleeve, rims, washer and screw, nut in machinery manufacturing.

Shanghai Katalor is located in Pudong district of Shanghai city. It is only 30 minutes from Pudong International airport to our company. If you have chance to China, we sincerely invite you to visit us. We have five big steel processing centers located in Shanghai City, Tianjin City, Qingdao City, Wuhan City and Nanyang City. Every processing center can process steel material 200,000 tons annually, So we have the capacity to offer the processing like cutting, drilling, wedding, milling, turning, bending, etc. We can provide the S35C steel works/ steel structures/steel machining parts according to your drawings. If you need S35C steel products, please be free to contact us.



Shanghai Katalor Enterprises

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**Shanghai Katalor Enterprises Co., Ltd** located in Shanghai of China, is specialized in manufacturing and exporting steel and casting products. Based on the domestic rich product resources and professional research on the international market, Katalor's service has already spread to many countries in Europe, America, Southeast Asia, Middle East, South America, Africa, and so on.

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