



JIS G4051 S40C steel works/steel structures/steel machining parts

S40C steel is a kind of non-alloy steel with high tensile strength. It has good machinability and cold deformation. While the weldability is not very good. S40C steel doesn't have temper brittleness, it has low hardenability. It may have water quenching crack easily.

The chemical composition of S35C is:

C: 0.37-0.43, Si 0.15-0.35, Mn 0.6-0.9, $P \leq 0.03$, $S \leq 0.035$

Mechanical properties of :

Tensile strength σ_b (MPa): ≥ 570

Yield strength σ_s (MPa): ≥ 335

Elongation δ_5 (%): ≥ 19

Reduction of area ψ (%): ≥ 45

Impact A_{kv} (J): ≥ 47

Hardness: $\leq 217HB$ (without heat treatment); $\leq 187HB$ (annealing)

Recommended temperature in heat treatment:

Normalizing: $860^\circ C$, Quenching: $840^\circ C$, tempering $600^\circ C$

S40C is usually used after being tempered or normalized. It can be used as parts that can withstand great stress. Such as crankshaft spindle, transmission shaft, piston rod and gear, etc. When S40C is used as welded parts, it need to be heated before welding, and need slow cooling after welding.

Shanghai Katalor has a series of deep processing machines, like flame cutting machines, bending machines, drilling machines, we can do the processing works, such as cutting, bending, drilling, welding etc. We not only provide the raw material, such as S40C steel plates, S40C round bar, S40C steel tube/pipe etc, but also provide the S40C steel works, S40C steel structures, S40C steel machine parts. Katalor can offer the S40C steel products according to your requirements strictly. If you need further information, just feel free to contact with us.



Shanghai Katalor Enterprises

ONCE BELIEVE, TRUST FOREVER!

Email: info@katalor.com

Tel: 0086-21-61182423



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.

Contact US:

Phone: 0086-18317160019

TEL: 0086-21-61182423

Fax: 0086-21-61182425

E-mail: info@katalor.com

Skype: shanghai.katalor

Address : Room 301, Unit 6, Lane 2500, Xiupu Road, Kangqiao Industrial Area, Pudong New District, Shanghai