Email:info@katalor.com

Tel:0086-21-61182423

## JIS G4051 S50C steel works/steel structures/steel machining parts

(1)S50C is a kind of mechanical structure carbon steel and is often manufactured into steel works/steel structures/steel machining parts.

(2)The properties of JIS G4051 S50C steel works/steel structures/steel machining parts: good mechanical processing and cutting. The more information is following:

The chemical composition of JIS G 4051 S50C steel

Grad	the chemical composition								
е									
	С	Si	Mn	Pma	Sma	Cu	Ni	Cr	
S50				x	x	max	max	max	
С	0.47-	0.15-	0.60-	0.03	0.03	0.30	0.20	0.20	
	0.53	0.35	0.90	0	5				

The mechanical property of JIS G4051 S45C steel

## (3) General use

Gra	Availability	Tensile	Yield	Elongation	impact	hardness
de	hardness	strength	strengt	% min( δ	strengt	
		min	h min	5)	h	
S50	143~187HBS	630MPa	375M	14%	$\geqslant$	≤241HB
С	179~235HBS		Pa		39(4)	(without heat
	212~277HBS					treatment)
						≤207HB
						(Annealed Steel)

The S50C steel sheets, S50C steel round bars, S50C steel tubes are usually used to manufacture mechanical and spring pieces with high abrasion resistance and low dynamic load and impact, such as forging gears, pull rods, rollers, shaft, friction disc, agricultural plowshares, heavy loading spindle ,etc.

And S50C machining parts are applied in many aspects which include plastic plates and mechanical parts for mould making, the pads for all kinds of cold working moulds, die retaining plates, standard mould materials, etc.

(4) Heat treatment

Heat treatment specification: normalizing,830  $^{\circ}$ C; quenching, 830  $^{\circ}$ C; tempering, 600  $^{\circ}$ C

(5)Metallographic structure

Pearlite + Ferrite

- (6)Processing machines: automatic submerged arc welding machine, bending machine, radial drill, argon are welding machine, edge milling machine, CNN vertical lathe.
- (7) Shanghai Katalor enterprises keeps more than 5000 tons of JIS G4051 S50C steel plates and round bar in our warehouse. We can process them to S50C steel works/steel structures/steel machining parts with precise specifications(as your drawings). With a large quantity of steel stock and deep-processing capacity, we can supply you annual 60,000 tons of JIS G4051 S50C steel works/steel structures/steel machining parts. If you need help, please contact us!

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 product. Based on the domestic rich product resources and professional research on international market, Katalor's ervice has already spread 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