

JISG4051 S40C steel plate high carbon steel

S40C steel plate, JISG4051 S40C steel plate, under JISG4051 standard, we can regard S40C steel plate as high carbon steel.

S40C steel plate is one mainly of high carbon steel, S40C has high strength and good machinability, cold plastic deformation of medium, good weldability, after quenching and tempering after welding, heat treatment, no temper brittleness, but lower hardenability. Bear the load for a small section of the larger pieces of quenched large normalizing or stress smaller parts and the Ministry of strength less demanding on the heart surface, hardening the surface wear parts, such as crankshafts, spindles, drive shaft, connecting rod, etc.

The equivalent standards of S45C steel

S40C JIS G 4051	Comparision of steel grades	
	DIN	1C40
	AISI	1040
	UNI 7846	-
	BS 970	-
	UNE 36011	-
	SAE J 403-AISI	-

Chemical Composition of S40C steel

Grade	C	Si	Mn	P(%) max	S(%) max	Cr(%) max	Ni(%) max	Cu(%) max
S45C	0.37-0.43	0.15-0.35	0.60-0.90	0.030	0.030	0.25	0.25	0.25

Mechanical Properties of S40C steel

Tensile Strength σ_b (MPa)	Yield Strength σ_s (MPa)	Elon- Gation Ration $\hat{1}5$ (%)	Reductio n of area Psi(%)	Impact merit AKV (J)	Resilie nt value AKV(J/ cm ²)	Degree of hardness	Anneale d steel	Test Specime n Size (mm)
≥ 570	≥ 335	≥ 19	≥ 45	≥ 47	≥ 59	$\leq 217\text{HB}$	$\leq 187\text{HB}$	25

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