

JIS G 4051 S35Csteel plate high carbon steel

S35Csteel plate, [JIS G 4051 S35Csteel plate](#), S 35 C high carbon steel plate and sheet, JIS G 4051 steel plate, S 35 C carbon steel supplier/Chinese S 35 C Steel supplier, S 35 C Steel price,S 35 C steel manufacturer.

[S 35 C steel plate](#) is one mainly of high carbon steel,the application of JIS G 4051 S 35 C steel plate is equal to DIN 1C35, AISI 1035.

The equivalent standards of S35C steel

Comparison of steel grades

S35C JIS G 4051	DIN	1C35
	AISI	1035
	UNI 7846	-
	BS 970	-
	UNE 36011	-
	SAE J 403-AISI	-

Main chemical composition in [JIS G 4051 S 35 C steel](#) : Carbon: from 0.32 to 0.38, Manganese from 0.60 to 0.90, Sulphur max 0.030, Phosphorus max 0.030, Silicon from 0.15 to 0.35, More detailed information, please refer to the flowing table:

Chemical Composition of S 35 C steel

Grade	C	Si	Mn	P(%) max	S(%) max	Cr(%) max	Ni(%) max	Cu(%) max
S35C	0.32-0.38	0.15-0.35	0.60-0.90	0.030	0.030	0.20	0.20	0.30

S 35 C high carbon steel has the good grain and Mechanical properties. It's yield strength is between 310-440 MPa , S 35 C tensile strength is from 480MPa to 1690MPa. More detailed information about JIS G 4051 S 35 C steel Mechanical Properties , please refer to the following table:

Mechanical Properties of S 35 C steel

Grade	Condition	Yield Strength R° (Mpa)	Tensile Strength Rm (Mpa)	Elongation A5(%)	Hardness HRC	Quenching Temperature (°C)	Bend ability	Nominal Thickness,t 1.95mm≤t≤10.0mm	
								Rolled	Annealed
C35	Rolled	440	700	18	53	840	Min.recommended Bending radius (≤90°)	2.0 ×t	1.0×t
	Annealed	310	480	30	50	880			
	Water- quenched		1845						
	Oil quenched		1690						

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