

JISG4051 S35C steel plate high carbon steel

S35C steel plate, JISG4051 S35C steel plate, under JISG4051 standard, we can regard S35C steel plate as high carbon steel.

S35C steel plate is one mainly of high carbon steel, JIS G 4051 S35C is carbon steel defined for machine structural use. S35C has got excellent weldability and machinability, and they can be subjected to various heat treatments like quenching and tempering.

The equivalent standards of S35C steel

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

Chemical Composition of S35C 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

Mechanical Properties of S35C steel

Grade	Annealed Hardness (HRB)	Hardening(HRB)			Tempering(HRC)		
		Temperature (°C)	Thickness(mm)		Temperature (°C)	Thickness(mm)	
			<6	≥6		<6	≥6
S35C	88max	840-890 Water quenched	46min	46min	150-200 Air colled	43min	43min

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