

EN 10083 C35 steel plate high carbon steel

C35 steel plate, EN 10083 C35 steel plate, under EN 10083 standard, we can regard C35 steel plate as high carbon steel.

C35 steel plate is one mainly of high carbon steel, the application of EN 10083 C35 steel plate is equal to JIS G4051 S35C, DIN C35, UNI C35, NFA AF55-C35, UNE36011 C35K and AISI 1035.

C35 EN 10083-2 Number:1.0501	Comparison of steel grades	
	JIS G 4051	S 35 C
	DIN 17200	C 35
	NFA 33-101	AF55-C 35
	UNI 7846	C 35
	BS 970	070 M 36
	UNE 36011	C 35 k
	SAE J 403-AISI	1035

Chemical Composition of C35 steel

Grade	C(%)min-max	Si(%)min-max	Mn(%)min-max	P(%)max	S(%)max	Cr(%)min-max
C35	0.32-0.39	0.15-0.35	0.50-0.80	0.025	0.025	0.20-0.40

Mechanical Properties of C35 steel

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

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