

EN 10083 C60 steel plate high carbon steel

C60 steel plate, EN 10083 C60 steel plate, under EN 10083 standard, we can regard C60 steel plate as high carbon steel.

C60 steel plate is one mainly of high carbon steel,EN 10083 C60 steel plate is one of the higher carbon content (0.60%) steels.It is more difficult to fabricate than the lower carbon grades.

C60 EN 10083-2 Number:1.0601	Comparision of steel grades	
	JIS G 4051	S 58 C
	DIN 17200	C 60
	NFA 33-101	-
	UNI 7846	-
	BS 970	070 M 60
	UNE 36011	-
	SAE J 403-AISI	1060

Chemical Composition of C60 steel

Grade	C(%)min-max	Si(%)min-max	Mn(%)min-max	P(%)max	S(%)max	Cr(%)min-max
C60	0.57-0.65	0.15-0.35	0.60-0.90	0.025	0.025	0.20-0.40

Mechanical Properties of C60 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≤10.0 mm	
								Rolled	Annealed
C60	Rolled	540	875	17	63	800	Min.recommended Bending radius (≤90°)	3.0×t	1.0×t
	Annealed	370	580	29	60	840			
	Water-quenched		2670						
	Oil quenched		2430						

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