

EN 10083 C45 steel plate high carbon steel

C45 steel plate, EN 10083 C45 steel plate, under EN 10083 standard, we can regard C45 steel plate as high carbon steel.

C45 steel plate is one mainly of high carbon steel,EN 10083 C45 steel plate is for quenching and tempering. Technical delivery conditions for non alloy steels,these steels are for general engineering purposes

C45 EN 10083-2 Number:1.0503	Comparision of steel grades	
	JIS G 4051	S 45 C
	DIN 17200	C 45
	NFA 33-101	AF65-C 45
	UNI 7846	C 45
	BS 970	070 M 46
	UNE 36011	C 45 k
	SAE J 403-AISI	1042/1045

Chemical Composition of EN C45 steel

Grade	C(%)min-max	Si(%)min-max	Mn(%)min-max	P(%)max	S(%)max	Cr(%)min-max
C45	0.42-0.50	0.15-0.35	0.50-0.80	0.025	0.025	0.20-0.40

Mechanical Properties of EN C45 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
C45	Rolled	460	750	18	58	820	Min.recommended Bending radius (≤90°)	2.0 ×t	1.0×t
	Annealed	330	540	30	55	860			
	Water-quenched		2270						
	Oil quenched		1980						

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