

DIN 17200 C45 steel plate high carbon steel

C45 steel plate, DIN 17200 C45 steel plate, under DIN 17200 standard, we can regard C45 steel plate as high carbon steel.

C45 steel plate is one mainly of high carbon steel, DIN 17200 C45 steel plate is for quenching and tempering. Technical delivery conditions for non alloy steels, these steels are for general engineering purposes

C45 DIN 17200 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 R _m (Mpa)	Elongation A5(%)	Hardness HRC	Quenching Temperature (°C)	Bendability	Nominal Thickness,t 1.95mm≤t≤10.0 mm	
								Rolled	Annealed
C45	Rolled Annealed Water-quenched Oil quenched	460 330	750 540 2270 1980	18 30	58 55	820 860	Min.recommended Bending radius (≤90°)	2.0 ×t	1.0×t

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