



**UNE36011 C45K steel plate high carbon steel**

C45K steel plate, UNE36011 C45K steel plate, under UNE36011 standard, we can regard C45K steel plate as high carbon steel.

C45K steel plate is one mainly of high carbon steel,UNE36011 C45K steel plate is under EN 10250-2:1999 standard,the material Number of C45K steel plate is 1.0503 and the comparison steel grades of C45K steel is JIS G 4051 S45C,DIN17200 C45,BS970 070M46,EN10083 C45 and SAE J403-AISI 1042/1045 steel.

C45K UNE 36011 Number:1.0503	Comparison 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
	EN 10083-2	C 45
	SAE J 403-AISI	1042/1045

Chemical Composition of C45K

Grade	C(%)min-max	Si(%)min-max	Mn(%)min-max	P(%)max	S(%)max	Cr(%)min-max
C45K	0.42-0.50	0.15-0.35	0.50-0.80	0.025	0.025	0.20-0.40

Mechanical Properties of C45K

Grade	Condition	Yield Strength R <sup>o</sup> (Mpa)	Tensile Strength Rm (Mpa)	Elon-gation A5(%)	Hardness HRC	Quenchi ng Temperature (°C)	Benda-bility	Nominal Thickness,t mm	
								1.95mm≤t≤10.0	mm
								Rolled	Annea led

**Bebon steel — The most professional exporter on shipbuilding steel**

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C45K	Rolled	460	750	18	58	820	Min.reco-mm	2.0	1.0×t
	Annealed	330	540	30	55	860	ended	×t	
	Water-quenc		2270				Bending		
	hed		1980				radius		
	Oil						(≤90°)		
	quenched								

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