

**EN 10083 C45 steel plate high carbon steel**

C45 steel plate, [EN 10083 C45 steel plate](#), C45 high carbon steel plate and sheet, EN10083 steel plate, C45 carbon steel supplier/Chinese C45 steel supplier, C45 steel price,C45 steel manufacturer.

[C45 steel plate](#) is one mainly of high carbon steel,the application of EN 10083 C45 steel plate is equal to JIS G4051 S45C,DIN17200 C45,UNI7846 C45,NFA AF65-C45 ,UNE36011 C45K and AISI 1042/1045.

C45 EN 10083-2 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
	UNE 36011	C 45 k
	SAE J 403-AISI	1042/1045

Main chemical composition in EN10083-2 C45 steel : Carbon: from 0.42 to 0.50, Manganese from 0.50 to 0.80, Sulphur max 0.025, Phosphorus max 0.025, Silicon from 0.15 to 0.35, More detailed information, please refer to the flowing table:

[Chemical Composition of 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

C45 high carbon steel has the good grain and Mechanical properties. It's yield strength is between 330-460 MPa ,C45 tensile strength is from 540MPa to 2270MPa. More detailed information about EN10083-2 C45 steel Mechanical Properties , please refer to the following table:

Mechanical Properties of C45 steel

Grade	Condition	Yield Strength R°(Mpa)	Tensile Strength Rm (Mpa)	Elongation A5(%)	Hardness HRC	Quenching Temperature (°C)	Bend ability	Nominal Thickness,t	
								1.95mm≤t≤10.0mm	
								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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