

EN 10083 C55 steel plate high carbon steel

C55 steel plate, [EN 10083 C55 steel plate](#), C55 high carbon steel plate and sheet, EN10083 steel plate, C55 carbon steel supplier/Chinese C55 steel supplier, C55 steel price, C55 steel manufacturer.

[C55 steel plate](#) is one mainly of high carbon steel, the application of EN 10083 C55 steel plate is equal to DIN17200 C55, NF AF70C55, JIS G 4051 S 55 C, SAE J 403-AISI 1055, BS970 070 M 55.

Comparison of steel grades

C55	JIS G 4051	S 55 C
EN 10083-2	DIN 17200	C 55
Number:1.0535	NFA 33-101	AF70-C 55
	UNI 7846	C 55
	BS 970	070 M 55
	UNE 36011	C 55 k
	SAE J 403-AISI	1055

Main chemical composition in [EN10083-2 C55 steel](#) : Carbon: from 0.52 to 0.60, Manganese from 0.60 to 0.90, 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 C55 steel

Grade	C(%)min-max	Si(%)min-max	Mn(%)min-max	P(%)max	S(%)max	Cr(%)min-max
C55	0.52-0.60	0.15-0.35	0.60-0.90	0.025	0.025	0.20-0.40

C55 high carbon steel has the good grain and Mechanical properties. It's yield strength is between 350-500 MPa ,C55 tensile strength is from 550MPa to 2510MPa. More detailed information about EN10083-2 C55 steel Mechanical Properties , please refer to the following table:

Mechanical Properties of C55 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	
C55	Rolled	500	825	18	61	805	Min.recommended Bending radius (≤90°)	3.0	1.0×t
	Annealed	350	550	30	57	845		×t	
	Water-quenched		2510						
	Oil quenched		2120						

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