

EN 10083 C50 steel plate high carbon steel

C50 steel plate, [EN 10083 C50 steel plate](#), C50 high carbon steel plate and sheet, EN10083 steel plate, C50 carbon steel supplier/Chinese C50 steel supplier, C50 steel price, C50 steel manufacturer.

[C50 steel plate](#) is one mainly of high carbon steel, the application of EN 10083 C50 steel plate is equal to JUS Č.16301, DIN17200 C50, NF AF70C55, JIS G 4051 S 50 C, SAE J 403-AISI 1049 / 1050, BS970 070 M 50.

Comparison of steel grades	
C50 EN 10083-2 Number: 1.0540	JUS Č.16301
	DIN C50
	BS970 070 M 50
	GOST -
	SAE J 403-AISI 1049 / 1050
	JIS G 4051 S 50 C
	NF (AF70C55)

Main chemical composition in [EN10083-2 C50 steel](#): Carbon: from 0.47 to 0.55, Manganese from 0.60 to 0.90, Sulphur max 0.045, Phosphorus max 0.045, Silicon max 0.40, More detailed information, please refer to the following table:

Chemical Composition of C50 steel

Chemical elements	C	Si max.	Mn	P max.	S max.	Cr max.	Mo max.	Ni max.	Cr+Mo+Ni max.
% , by mass	0,47-0,55	0,40	0,60-0,90	0,045	0,045	0,40	0,10	0,40	0,63
Permissible deviation	± 0,02	+ 0,03	± 0,04	+ 0,005	+ 0,005	+ 0,05	+ 0,03	+ 0,05	-

C50 high carbon steel has the good grain and Mechanical properties. It's yield strength is between 320-610 MPa ,C50 tensile strength is from 290MPa to 590MPa. More detailed information about EN10083-2 C50 steel Mechanical Properties , please refer to the following table:

Mechanical Properties of C50 steel

Thickness of ruling section tR

Diameter in mm	tR ≤ 100mm	100 < tR ≤ 250mm	250 < tR ≤ 500mm	500 < tR ≤ 1000mm
Re min (N/mm ²)	320	290	-	-
Rm min (N/mm ²)	610	590	-	-
A % min. l-longitudinal	14	14	-	-
tr -transverse	-	-	-	-
KV min * l-longitudinal	-	-	-	-

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Beijing ICE iron and steel

(J) tr -transverse - - - -

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