

EN10250 C55 steel, steel plates,C55 steel sheet, is a kind of high carbon steel plates,steel sheets in EN10250 standard. The following are EN10250 C55 steel chemical composition and mechanical properties. If you want to know C55 steel price , please contact us-- bebon international. We are the professional C55 supplier.

C55 EN 10250-2:1999 , Number: 1.0535	Comparison of steel grades	
	JUS	Č.1630
	DIN	C55
	BS	070M55
	GOST	55
	AISI	1055
	UNI	C55
	NF	(AF70C55), IC55

Chemical analysis -% by mass

Chemical elements	C	Si max.	Mn	P max.	S max.	Cr max.	Mo max.	Ni max.	Cr+Mo+Ni max.	
% , by mass	0,52-0,60	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		-

At the option of the manufacturer the elements aluminium, titanium, vanadium and niobium may be added singly or in combination for grain size control purposes. Elements not quoted in table shall not be added to the steel without the agreement of the purchaser, except for the purpose of finishing the heat.

Mechanical properties in the normalized and normalized and tempered conditions

Thickness of ruling section tR		tR ≤ 100mm	100 < tR ≤ 250mm	250 < tR ≤ 500mm	500 < tR ≤ 1000mm
Diameter in mm					
Re min (N/mm ²)		330	330	260	250
Rm min (N/mm ²)		640	620	600	590
A % min.	l-longitudinal	12	12	12	11
	tr -transverse	-	9	9	8
KV min * (J)	l-longitudinal	-	-	-	-
	tr -transverse	-	-	-	-

1N/mm²=1MPa Maksimim hardness for forgings to be supplied in the annealed condition

HB max 229

Heat treatment conditions

Quenching Temperature, 0C	Cooling medium	Tempering Temperature, 0C	Normalizing temperature, 0C
805 to 845	Oil or water	550 to 660	825 to 865

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