

**DIN 17100 ST 50-2 steel plate/sheet for general Construction steels**

Key words :

**DIN 17100 ST 50-2 steel plate/sheet**, DIN 17100 ST 50-2 steel plate/sheet, under DIN 17100 standard, we can regard ST 50-2 steel plate/sheet for general Construction steels. DIN 17100 ST 50-2 steel plate/sheet is for general Construction steels. The followings are the chemical composition and the mechanical properties of DIN 17100 ST 50-2 steel.

Equivalent grade :

**ST 50-2 steel plate/sheet** is in DIN 17100 standard. The comparison of steel grades is: DIN17100:1990 FE490-2, DIN17100 ST50-2, NFA 35-501 A50-2, BS1449, UNI7070 FE 490.

ST 50-2 DIN 17100	Comparison of steel grades	
	DIN 17100:1990	FE 490-2
	DIN17100	ST50-2
	NFA 35-501	A50-2
	BS1449	-
	UNI7070	FE 490

**Chemical analysis -% by mass\* of ST 50-2 steel**

Main chemical composition in DIN 17100 ST 50-2 steel : Phosphorus max 0.045, Silicon max 0.045, please refer to the flowing table:

Chemical elements	C≤ 16mm max	C>16mm max	Si max	Mn max	P max.	S max.	N max
%,by mass	-	-	-	-	0.045	0.045	0.012

Mechanical properties of ST 50-2 steel

DIN 17100 ST 50-2 is general Construction steels, The different thickness with different yield strength, tensile strength and fracture elongation. More detailed information about DIN 17100 ST 50-2 steel Mechanical Properties , please refer to the following table:

thickness	Yield Strength ReH [N/mm <sup>2</sup> ] transv.min.	Tensile Strength Rm [N/mm <sup>2</sup> ] transv.	Fracture Elongation[%]transv. min.	Notch Impact Energy1)Ch Vcomplete samplelongitud. min [J]
t ≤ 16mm t > 16mm	295 285			
t < 3mm t ≥ 3mm		490-600 470-610		- -
Up to 1.5mm 1.51-2.00mm 2.01-2.50mm 2.51-2.99mm ≥ 3mm			11 12 13 14 18	

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