

DIN 17100 ST 70-2 steel plate/sheet for general Construction steels

Key words :

DIN 17100 ST 70-2 steel plate/sheet, DIN 17100 ST 70-2 steel plate/sheet, under DIN 17100 standard, we can regard ST 70-2 steel plate/sheet for general Construction steels. DIN 17100 ST 70-2 steel plate/sheet is for general Construction steels. The followings are the chemical composition and the mechanical properties of DIN 17100 ST 70-2 steel. ST 70-2 steel is according to DIN 17100 standard and it is equivalent to EN: Fe690-2, DIN17100:St70-2, NFA: A70-2 and DIN 17100:E360 steel grades.

Equivalent grade :

DIN 17100 ST 70-2 steel plate/sheet is in DIN 17100 standard. The comparison of steel grades is: DIN 17100:1990 ST 70-2, DIN17100 ST60-2, NFA 35-501 A60-2, BS1449, UNI7070 FE 590.

ST 70-2 DIN 17100	Comparison of steel grades	
	DIN 17100:1990	ST 70-2
	DIN17100	ST70-2
	NFA 35-501	A70-2
	BS1449	-
	UNI7070	FE 690

ST 70-2 steel Chemical analysis

Main chemical composition in DIN 17100 ST 70-2 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
ST 70-2	-	-	-	-	0.045	0.045	0.012

ST 70-2 steel Mechanical properties

DIN 17100 ST 70-2 is general Construction steels, The different thickness with different yield strength, tensile strength and fracture elongation. More detailed information about DIN 17100 ST 70-2 steel Mechanical Properties , please refer to the following table:

thickness	Yield Strength ReH [N/mm ²] transv. min.	Tensile Strength Rm [N/mm ²] transv.	Fracture Elongation[%]transv. min.	Notch Impact Energy ¹)Ch Vcomplete samplelongitud. min [J]
t ≤ 16mm t > 16mm	360 355			
t < 3mm t ≥ 3mm		690-900 670-830		- -
Up to 1.5mm 1.51-2.00mm 2.01-2.50mm 2.51-2.99mm ≥ 3mm			4 5 6 7 10	

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