

EN 10025 FE 590-2 steel plate/sheet for general Construction steels

Key words :

[EN 10025 FE 590-2 steel plate/sheet](#), EN 10025 FE 590-2 steel plate/sheet, under EN standard, we can regard FE 590-2 steel plate/sheet for general Construction steels. EN 10025 FE 590-2 steel plate/sheet is for general Construction steels. The followings are the chemical composition and the mechanical properties of EN FE 590-2 steel. FE590-2 steel is according to EN 10025 standard and it is equivalent to DIN17100:St60-2,NFA:A60-2 and UNI7070:Fe590 steel grades.

Equivalent grade :

EN 10025 FE 590-2 steel plate/sheet is in EN 10025 standard. The comparison of steel grades is: EN 10025:1990 FE590-2, DIN17100 ST60-2, NFA 35-501 A60-2,BS1449,UNI7070 FE 590.

FE 590-2 EN 10025	Comparison of steel grades	
	EN 10025:1990	FE 590-2
	DIN17100	ST60-2
	NFA 35-501	A60-2
	BS1449	-
	UNI7070	FE 590

FE590-2 steel Chemical analysis -% by mass*

Main chemical composition in EN 10025 FE 590-2 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
FE 590-2	-	-	-	-	0.045	0.045	0.012

FE590-2 steel Mechanical properties

EN 10025 FE 590-2 is general Construction steels, The different thickness with different yield strength, tensile strength and fracture elongation. More detailed information about EN 10025 FE 590-2 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 Energy1)Ch Vcomplete samplelongitud. min [J]
t≤ 16mm t >16mm	335 325			
t < 3mm t ≥ 3mm		590-770 570-710		- -
Up to 1.5mm 1.51-2.00mm 2.01-2.50mm 2.51-2.99mm ≥ 3mm			7 8 9 10 14	

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