

UNI 7070 FE 590 steel plate/sheet for general Construction steels

UNI 7070 FE 590 steel plate/sheet, UNI 7070 FE 590 steel plate/sheet, under EN standard, we can regard FE 590 steel plate/sheet for general Construction steels. UNI 7070 FE 590 steel plate/sheet is for general Construction steels. The followings are the chemical composition and the mechanical properties of EN FE 590 steel. FE 590 steel is according to UNI 7070 standard and it is equivalent to DIN17100:St60-2, NFA: A60-2 and UNI7070:Fe590 steel grades.

FE 590 UNI 7070	Comparison of steel grades	
	UNI 7070:1990	FE 590-2
	DIN17100	ST60-2
	NFA 35-501	A60-2
	BS1449	-
	UNI7070	FE 590

Chemical analysis -% by mass of FE 590 steel

Chemical elements	C _≤ 16mm max	C>16mm max	Si max	Mn max	P max.	S max.	N max
FE 590	-	-	-	-	0.045	0.045	0.012

Mechanical properties of FE 590 steel

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	335			
t > 16mm	325			
t < 3mm		590-770		
t ≥ 3mm		570-710		
Up to 1.5mm			7	-
1.51-2.00mm			8	-
2.01-2.50mm			9	
2.51-2.99mm			10	
≥ 3mm			14	

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