

EN 10025 E 295 steel plate/sheet for General Construction Steels

Key words :

EN10025 E295 steel plate/sheet, EN10025 E295 steel plate/sheet, under EN standard, we can regard E295 steel plate/sheet for general Construction steels. EN10025 E295 steel plate/sheet is for general Construction steels. The followings are the chemical composition and the mechanical properties of EN E295 steel.

Equivalent grade :

E295 steel plate/sheet is in EN10025 standard. The comparison of steel grades is: EN10025 :1990 E295, DIN17100 ST50-2, NFA 35-501 A50-2, BS1449, UNI7070 FE 490.

E295 EN 10025-2 Number: 1.0050	Comparison of steel grades	
	EN10025:1990	FE 490-2
	DIN17100	ST50-2
	NFA 35-501	A50-2
	BS1449	-
	UNI7070	FE 490

E295 steel Chemical analysis -% by mass*

Main chemical composition in EN10025 E295 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

ST E295 steel Mechanical properties

EN10025 E295 is general Construction steels, The different thickness with different yield strength, tensile strength and fracture elongation. More detailed information about EN10025 E295 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	295 285			-
t < 3mm t ≥ 3mm		490-600 470-610		
Up to 1.5mm			11	
1.51-2.00mm			12	
2.01-2.50mm			13	
2.51-2.99mm			14	
≥ 3mm			18	

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