

EN10025 S275J0 low alloy steel

Key words :

S275J0 steel plate, under EN10025(93) standard S275J0 steel plate, under EN10025(93) standard, we can regard S275J0 steel plate as low alloy steel

S275J0 steel plate is one mainly of low alloy steel, S275J0 alloy steel plate is equal to DIN:St44-3U,NFA:E28-3,BS:43C and UNI:Fe430C.The tensile strength of S275Jo is 430-580MPa when its thickness is less than 3mm

Equivalent grade :

S275J0 steel plate/sheet is in EN10025 standard. It's grade Number is 1.0044. The equal material of S275J0 is: EN10025:1990 FE 430 C, DIN17100 ST44-3U, NFA 35-501 E28-3, BS1449 43C UNI7070 FE 430 C .

Comparison of steel grades

	EN10025:1990	FE 430 C
S275J0	DIN17100	ST44-3U
DIN EN 10025-2Number: 1.0143	NFA 35-501	E28-3
	BS1449	43C
	UNI7070	FE 430 C

EN10025 S275J0 steel Chemical Composition % :

Main chemical composition in [EN10025 S275J0 steel](#) : Manganese max 1.5, Phosphorus max 0.040,Sulphur max 0.040. More detailed information, please refer to the flowing table:

Chemical elements	C≤ 16mm max	C>16mm max	Si max	Mn max	P max.	S max.
%,by mass	0.18	0.18	--	1.50	0.040	0.040

EN10025 S275J0 steel Mechanical Properties

EN10025 S275J0 steel plate/sheet for low alloy steels, This kind of steel has very wide use. Because of the low Carbon content and without alloy element, carbon structural steel has the proper tensile strength, good toughness, plasticity,processing property. More detailed information about EN10025 S275J0 steel Mechanical Properties , please refer to the following table:

thickness	Yield StrengthReH[N/mm2] transv.min.	TensileStrengthRm[N/mm2]transv.	Fracture Elongation[%] transv. min.	Notch Impact Energy1)Ch Vcomplete samplelongitud. min [J]
t≤ 16mm	275			
t >16mm	265			
t < 3mm		430-580		0 degree
t ≥ 3mm		410-560		27J
Up to 1.5mm			13	
1.51-2.00mm			14	
2.01-2.50mm			15	

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2.51-2.99mm	16
≥ 3mm	20

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