

Carbon and low alloy steel EN10025 S275J0 steel plate

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

S275J0 steel plate is one mainly of Carbon and 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

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

Chemical analysis -% by mass*

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

Mechanical properties

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 t >16mm	275 265			0 degree 27J
t < 3mm t ≥ 3mm		430-580 410-560		
Up to 1.5mm			13	
1.51-2.00mm			14	
2.01-2.50mm			15	
2.51-2.99mm ≥ 3mm			16 20	

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