

EN10025 S355J0 low alloy steel

Key words :

S355J0 steel plate, EN10025 S355J0 steel plate, under EN10025 standard, we can regard S355J0 steel plate as low alloy steel. S355J0 steel plate is one mainly of low alloy steel, S355J0 steel plate S355J0 Material number 1.0553 According to EN10025 1. In different standards, we can regard S355J0 steel plate as different name. the detail information is as follows DIN 17100: St 52-3 U NFA 35-501: E 36-3 UNI 7070: Fe 510 C

Equivalent grade :

S355J0 steel plate/sheet is in EN10025 standard. It's grade Number is 1.0553. The equal material of S355J0 is: EN10025:1990 FE 510 C, DIN17100 ST52-3U, NFA 35-501 E36-3, BS1449 50C - UNI7070 A283C.

Comparison of steel grades

	EN10025:1990	FE 510 C
S355J0	DIN17100	ST52-3U
DIN EN 10025-2 Number: 1.0553	NFA 35-501	E36-3
	BS1449	50C
	UNI7070	FE 510 C

EN10025 S355J0 steel Chemical Composition % :

Main chemical composition in EN10025 S355J0 steel : Manganese max 1.6, 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	0.20	0.20	0.55	1.60	0.040	0.040

EN10025 S355J0 steel Mechanical Properties

EN10025 S355J0 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 S355J0 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	355			
t >16mm	345			
t < 3mm		510-680		
t ≥ 3mm		490-630		0 degree
Up to 1.5mm			13	27J
1.51-2.00mm			14	
2.01-2.50mm			15	
2.51-2.99mm			16	
≥ 3mm			20	

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