

EN10025 S235J0 carbon steel

Key words :

S235J0 steel plate, under EN10025(93) standard S235J0 steel plate, under EN10025(93) standard, we can regard S235J0 steel plate as Carbon steel

S235J0 steel plate is one mainly of Carbon steel, S235J0 steel plate is a structural steel grade which be used in riveted, bolted, or welded construction of bridges and buildings. It is identical to DIN:St37-3U, BS:40C, JIS:SM400B and Fe360C and etc

Equivalent grade :

S235J0 steel plate/sheet is in EN10025 standard. It's grade Number is 1.0114. The equal material of S235J0 is: EN10025:1990 FE 360 C, DIN17100 ST37-3U, NFA 35-501 E24-3, JIS3101 SS400B, UNI7070 FE 360 C .

Comparison of steel grades

	EN10025:1990	FE E 360 C
	DIN17100	ST37-3U
S235J0	NFA 35-501	E24-3
DIN EN 10025-2 Number: 1.0114	BS1449	40C
	JIS3106	SM400B
	UNI7070	FE 360 C

EN10025 S235J0 steel Chemical Composition % :

Main chemical composition in EN10025 S235J0 steel : Manganese max 1.4, Phosphorus max 0.045, Sulphur max 0.045. 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	0.17	0.17	--	1.40	0.045	0.045

EN10025 S235J0 steel Mechanical Properties

EN10025 S235J0 steel plate/sheet for carbon 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 S235J0 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 V complete sample longitud. min [J]
t ≤ 16mm	235			
t > 16mm	225			
t < 3mm		360-510		
t ≥ 3mm		340-470		Degree: 0 AV: 27J
Up to 1.5mm			16	
1.51-2.00mm			17	
2.01-2.50mm			18	
2.51-2.99mm			19	

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