

EN10025 S275N low alloy steel

Key words :

S275N steel plate, under EN10113-2 standard S275N steel plate, under EN10113-2 standard, we can regard S275N steel plate as low alloy steel

S275N steel plate is one mainly of low alloy steel, S275N steel plate is under EN10025-3 standard equivalent to DIN:StE285, which with a minimum impact energy of 20J at temperatures not lower than -20 degree and the tensile strength of S275N is 370 to 510MPa

Equivalent grade :

[S275N steel plate/sheet](#) is in EN10025 standard. It's grade Number is 1.0490. The equal material of S275N is: UNE36081:

AE285KG/AE285KW, DIN17102 STE285, NFA 36-207, UN Fe E 275KG N.

Comparison of steel grades

	UNE36081	AE285KG/AE285KW
S275N	DIN17102	STE285
EN 10025-3 MATERIAL# 1.0490	NFA 36-207	-
	UN	Fe E 275KG N

EN10025 S275N steel Chemical Composition % :

Main chemical composition in EN10025 S275N steel : Manganese 0.50-1.50, Phosphorus max 0.030, Sulphur max 0.025. More detailed information, please refer to the flowing table:

Chemical elements	C max	Si max	Mn	P max	S max.	Cu max	Cr max	Ni max	V max	Nb max	Al min
%,by mass	0.18	0.40	0.50-1.50	0.030	0.025	0.55	0.30	0.30	0.05	0.05	0.02

EN10025 S275N steel Mechanical Properties

EN10025 S275N 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 S275N steel Mechanical Properties , please refer to the following table:

thickness	Yield Strength ReH[N/mm2] transv. min.	TensileStrengthRm[N/mm2]transv.	Fracture Elongation[%]transv. min.	Notch Impact Energy1)Ch Vcomplete samplelongitud. min [J]
t ≤ 16mm	275			+20 KV 31J
t > 16mm	265			0 KV 27J
t < 3mm		370-510		-10 KV 24J
t ≥ 3mm				-20 KV 20J
Up to 1.5mm				-40 -
1.51-2.00mm				-50 -
2.01-2.50mm			24	
2.51-2.99mm				
≥ 3mm				

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