

EN10025 S355N steel plate low alloy steel

Key words :

S355N steel plate, under EN10113-2 standard S355N steel plate, under EN10113-2 standard, we can regard S355N steel plate as low alloy steel

S355N steel plate is one mainly of low alloy steel, S355N steel plate under EN10025-3 standard, it is normalized , fine grain structural steel which is regarded as other standards,like:DIN-StE355,NFA-E355R and UN-FeE355KGN

Equivalent grade :

[S355N steel plate/sheet](#) is in EN10025 standard. It's grade Number is 1.0545. The equal material of S355N is: UNE36081 AE355KG/AE355KW , DIN17102 STE355, NFA 36-201 E355R, BS4036 ,UN Fe E 3555KG N .

Comparison of steel grades

	UNE36081	AE355KG/AE355KW
S355N	DIN17102	STE355
EN 10025-3 MATERIAL#1.0545	NFA 36-201	E355R
	BS4036	-
	UN	Fe E 3555KG N

EN10025 S355N steel Chemical Composition

Main chemical composition in EN10025 S355N steel : Carbon max 0.20,Silicium max 0.50, Manganese max 0.90-1.65, 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	0.20	0.50	0.90-1.65	0.030	0.025	0.55	0.30	0.50	0.12	0.05	0.02

EN10025 S355N steel Mechanical Properties

EN10025 S355N 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 S355N 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	355			+20 KV 31J
t >16mm	345			0 KV 27J
t < 3mm		470-630		-10 KV 24J
t ≥ 3mm				-20 KV 20J
Up to 1.5mm				-40 -
1.51-2.00mm				-50 -
2.01-2.50mm			22	
2.51-2.99mm				
≥ 3mm				

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