

**EN10025 S355NL steel plate low alloy steel**

Key words :

[S355NL steel plate](#), under EN10113-2 standard S355NL steel plate, under EN10113-2 standard, we can regard S355NL steel plate as low alloy steel

S355NL steel plate is one mainly of low alloy steel, The normalized rolled fine-grain structural steel S355NL is characterized by a minimum yield strength of 355 MPa, by good weldability and high resistance to brittle fracture, which is same with DIN:TStE355 and BS:55EE

Equivalent grade :

[S355NL steel plate/sheet](#) is in EN10025 standard. It's grade Number is 1.0456. The equal material of S355NL is: UNE36081 AE 355 KT,DIN17102 T StE 355,UN Fe E 355 KT N,NFA36 201 E355FP, BS4360 50 EE.

Comparison of steel grades

	UNE36081	AE 355 KT
	DIN17102	T StE 355
S355NL	UN	Fe E 355 KT N
EN 10025-3 MATERIAL# 1.0456	NFA36 201	E355FP
	BS4360	50 EE

**EN10025 S355NL steel Chemical Composition**

Main chemical composition in EN10025 S355NL steel :Carbon max 0.18, Silicium max 0.50,Manganese max 0.90-1.65, Phosphorus max 0.025,Sulphur max 0.020. More detailed information, please refer to the flowing table:

Chemical elements	C max	Si max	Mn max	P max	S max.	Cu max	Cr max	Ni max	V max	Nb max	Al min
%,by mass	0.18	0.50	0.90-1.65	0.025	0.020	0.55	0.30	0.50	0.12	0.05	0.02

EN10025 S355NL steel Mechanical Properties

EN10025 S355NL steel plate/sheet for carbon and 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 S355NL 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 40J
t >16mm	345			0 KV 34J
t < 3mm		470-630		-10 KV 30J
t ≥ 3mm				-20 KV 27J
				-30 KV 23J
				-40 KV 20J
Up to 1.5mm			22	-50 KV 16J
1.51-2.00mm				

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2.01-2.50mm  
2.51-2.99mm  
≥ 3mm

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