

**EN10025 S275NL low alloy steel**

Key words :

S275NL steel plate, under EN10113-2 standard S275NL steel plate, under EN10113-2 standard, we can regard S275NL steel plate as low alloy steel

S275NL steel plate is one mainly of low alloy steel, S275NL steel plate is a hot rolled structural steels, which technical delivery conditions for normalized or normalized rolled in weldable fine grain structural steel grade. It is also regarded as DIN:TStE285 and BS:43EE

Equivalent grade :

S275NL steel plate/sheet is in EN10025 standard. It's grade Number is 1.0044. The equal material of S275NL is: UNE36081 AE 285 KT, DIN17102 T StE 285, UN Fe E 275 KT N,BS4360 43 EE ,

Comparison of steel grades

	UNE36081	AE 285 KT
S275NL	DIN17102	T StE 285
EN 10025-3 MATERIAL# 1.0491	UN	Fe E 275 KT N
	BS4360	43 EE

**EN10025 S275NL steel Chemical Composition**% :

Main chemical composition in EN10025 S275NL steel : Manganese 0.50-1.50, 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	0.16	0.40	0.50-1.50	0.025	0.020	0.55	0.30	0.30	0.05	0.05	0.02

**EN10025 S275NL steel Mechanical Properties**

EN10025 S275NL 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 S275NL steel Mechanical Properties , please refer to the following table:

thickness	Yield StrengthReH[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 40J
t >16mm	265			
t < 3mm		370-510		0 KV 34J
t ≥ 3mm				-10 KV 30J
Up to 1.5mm				-20 KV 27J
1.51-2.00mm				-30 KV 23J
2.01-2.50mm			24	-40 KV 20J
2.51-2.99mm				-50 KV 16J
≥ 3mm				

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Tel:0086-10-56218820

E-mail: steel@ice-stees.com

Fax: 0086-10-56218821

Web:http://www.ice-steels.com

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Tel:0086-10-56218820

E-mail: [steel@ice-steels.com](mailto:steel@ice-steels.com)

Fax: 0086-10-56218821

Web:<http://www.ice-steels.com>

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