

Under EN10111 standard, **S420NL Steel Plate** Main Applications Used for manufacturing factory buildings, **general construction and engineering plants**, such as, drilling machine, excavator, tip lorry with electric wheel, mining dump truck, grab, shovel loader, bulldozer, all kinds of cranes, coalmine hydraulic support and other machinery and **related structure units**.

S420NL EN 10111 MATERIAL# 1.8912	Comparison of steel grades	
	UNE36081	AE 420 KT
	DIN17102	T StE 420
	UN	-
	NFA36 201	E420FP
	BS4360	-

S420NL steel Chemical analysis -% by mass*

Chemical elements	C	Si	Mn	P	S	Cu	Cr	Ni	V	Nb	Al
	max	max	max	max	max.	max	max	max	max	max	min
%by mass	0.20	0.60	1.00-1.70	0.025	0.020	0.55	0.30	0.80	0.20	0.05	0.02

S420NL Alloy steel Mechanical properties

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	420			+20 KV 40J
t > 16mm	400			0 KV 34J
t < 3mm		520-680		-10 KV 30J
t ≥ 3mm				-20 KV 27J
Up to 1.5mm				-30 KV 23J
1.51-2.00m			19	-40 KV 20J
2.01-2.50m				-50 KV 16J

BEBON international — We are specialized in hot rolled steel plate/coil.

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m				
2.51-2.99m				
m				
≥ 3mm				

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