

**EN 10111 S420N steel plate/sheet for fine-grain structural steels  
normalised rolled steels**

EN 10111 S420N steel plate/sheet, EN 10111 S420N steel plate/sheet, under EN standard, we can regard S420N steel plate/sheet as fine-grain structural steels, normalised rolled steels. EN 10111 S420N is mainly used as fine-grain structural steels, normalised rolled steels.

EN 10111 S420N steel plate/sheet is a hot rolled structural steels, which shall be done low temperature Charpy\_V impacting test under EN10025 standard, the temperature shall be minus 20 centi degree, and the impacting energy shall be min 27J.

**Chemical Composition of S420N**

Grade	C max	Si max	Mn max	P max	S max	N max	AL max	Nb max	V max	Ti max	Cr max	Ni max	Mo max	Cu max	CE V max
S420 N	0.2	0.6	1.0 - 1.7	0.0 3	0.2 5	0.0 25	0.0 2	0.0 5	0.2	0.0 5	0.3	0.8	0.1	0.5 5	0.5 2

**Mechanical Properties of S420N**

Grade	Yield Strength (Min Mpa) Thickness(mm)				Tensile Strength (Mpa)		Impacting Test	
	≤ 16	16-40	40-100	≥ 100	T<100	T>100	°C	J
S420N	420	400	390	340	520-680	500- 650	-50	27

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