

[EN 10113-3 S420ML steel plate/sheet](#) for fine-grain structural steel

Key words: [S420ML steel plate/sheet](#), EN 10113-3 S420ML steel plate/sheet, S420ML steel plate/sheet supplier/Chinese supplier, S420ML steel plate/sheet price, S420ML steel plate/sheet mechanical property.

[EN 10113-3 S420ML steel](#) equivalent grade:

S420M steel plate/sheet is in EN 10113-3 standard, the grade number is 1.8836. The equivalent materials of S420ML steel are SEW 083 TStE 420 TM, NFA 36-201 E 420 FP, ASTM A 633 Gr.E.

S420ML EN 10113-3 Number:1.8836	Comparision of steel grades	
	SEW 083	TStE 420 TM
	NFA 36-201	E 420 FP
	UNI 7382	-
	BS 4360	-
	ASTM	A 633 Gr.E

[EN 10113-3 S420ML steel chemical composition](#) %:

Main chemical composition in EN 10113-3 S420ML steel is carbon max 0.16, silicon max 0.50, manganese max 1.70, phosphorus max 0.025, Sulphur max 0.02, chromium max 0.30. More detailed information about S420ML steel, please refer to the down table:

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	CEV max
S420ML	0.16%	0.50%	1.70%	0.025%	0.02%	0.02%	0.02%	0.05%	0.12%	0.05%	0.30%	0.80%	0.20%	0.55%	0.47%

EN 10113-3 S420ML steel mechanical property:

EN10113-3 S420ML is a technical delivery conditions for thermomechanical rolled weldable fine grain structural steels.S means the structural steel, M means the delivery condition.Capital letter L for the quality with specified minimum values of values of impact energy at temperature not lower than -50 degree.

Temperature	-50	-40	-30	-20	-10	0	20
Notch impact test. Min. absorbed energy	27	31	40	47	51	55	63

Nominal thickness(mm)	to 16	16-40	40-63	63-80	80-100	100-120
ReH-Minimum yield strength(Mpa)	420	400	390	380	370	365

Nominal thickness(mm)	to 40	40-63	63-80	80-100	100-120
Rm-Tensile strength(Mpa)	520-680	500-660	480-640	470-630	460-620

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**ICE Iron & Steel**

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Nominal thickness(mm)	-
A-Minimum elongation Lo=5,65√So(%)	19

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