

EN 10113-3 S420M steel plate/sheet for fine-grain structural steel

Key words: [S420M steel plate/sheet](#), EN 10113-3 S420M steel plate/sheet, S420M steel plate/sheet supplier/Chinese supplier, S420M steel plate/sheet price, S420M steel plate/sheet mechanical property.

EN 10113-3 S420M steel equivalent grade:

S420M steel plate/sheet is in EN 10113-3 standard, the grade number is 1.8825. The equivalent materials of S420M steel are SEW 083 TStE 420 TM, NFA 36-201 E 420 R, ASTM A 572 Gr.60.

S420M EN 10113-3 Number:1.8825	Comparision of steel grades	
	SEW 083	TStE 420 TM
	NFA 36-201	E 420 R
	UNI 7382	-
	BS 4360	-
	ASTM	A 572 Gr.60

EN 10113-3 S420M steel chemical composition %:

Main chemical composition in EN 10113-3 S420M steel is carton max 0.16, silicon max 0.50, manganese max 1.70, phosphorus max 0.030, Sulphur max 0.025, chromium max 0.30. More detailed information about S420M 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
S420M	0.16%	0.50%	1.70%	0.03%	0.025%	0.025%	0.02%	0.05%	0.12%	0.05%	0.30%	0.80%	0.20%	0.55%	0.47%

EN 10113-3 S420M steel mechanical property:

EN10113-3 S420M 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.

Temperature	-10	0	20
Notch impact test. Min. absorbed energy	43	47	55

Nominal thickness(mm)	to 16	16-40	40-63	63-80	80-100	100-120
ReH-Minimun 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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Beijing ICE iron and steel

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

ICE steel is the professional Chinese steel exporter, especially in fin-grain structural steel. We keep 10000 tons ex-stock in our warehouse, and the MTC and sample of EN 10113-3 S420M steel are available, so if need, welcome to contact ICE steel sales team.

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