

EN10113 S420M steel plate/sheet for Fine-grain structural steels, thermomechanically rolled steels

EN10113 S420M steel plate/sheet, EN10113 S460M steel plate/sheet, under EN standard, we can regard S420M steel plate/sheet for Fine-grain structural steels, thermomechanically rolled steel.

EN10113 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. The EN10113 S420M steel is equivalent to SEW TStE420TM, NFA E420R and ASTM A572Gr60 steel grade.

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

Chemical Composition of EN S420M steel

Grade	C	Si	Mn	P	S	N	AL	Nb	V	Ti	Cr	Ni	Mo	Cu	CE
	max	max	max	max	max	max	max	max	max	max	max	max	max	max	Vmax
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%	0.50%	0.47%

Mechanical Properties of EN S420M steel

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-Minimum yield strength(Mpa)	420	400	390	380	370	365

Bebon steel — The most professional exporter on shipbuilding steel

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

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