

EN10113 S420ML steel plate/sheet for Fine-grain structural steels, thermomechanically rolled steels

EN10113 S420ML steel plate/sheet, EN10113 S420ML steel plate/sheet, under EN standard, we can regard S420ML steel plate/sheet for Fine-grain structural steels, thermomechanically rolled steel.

EN10113 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. It is equal to SEW083 TStE420TM, NFA36-201 E420FP and ASTM A633Gr.E.

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

Chemical Composition of EN S420ML steel

Grade	C	Si	Mn	P	S	N	AL	Nb	V	Ti	Cr	Ni	Mo	Cu	CE
S420ML	0.16%	0.5%	1.7%	0.025%	0.02%	0.02%	0.02%	0.05%	0.12%	0.05%	0.3%	0.8%	0.2%	0.5%	0.47%

Mechanical Properties of EN S420ML steel

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

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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