

EN10113 S460M steel plate/sheet for Fine-grain structural steels, thermomechanically rolled steels

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

EN10113 S460M 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 -20 degree.

S460M EN 10113-3 Number:1.8827	Comparision of steel grades	
	SEW 083	StE 460 TM
	NFA 36-201	E 460 R
	UNI 7382	Fe E 460 KGTM
	BS 4360	-
	ASTM	A 572 Gr.65

Chemical Composition of EN S460M 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
S460M	0.16%	0.60%	1.70%	0.03%	0.025%	0.025%	0.02%	0.05%	0.12%	0.05%	0.30%	0.80%	0.20%	0.50%	0.48%

Mechanical Properties of EN S460M 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)	460	440	430	410	400	385

Nominal thickness(mm)	to 40	40-63	63-80	80-100	100-120
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Bebon steel — The most professional exporter on shipbuilding steel

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Rm-Tensile strength(Mpa)	540-720	530-710	510-690	500-680	490-660
Nominal thickness(mm)	-				
A-Minimum elongation Lo=5,65√So(%)	17				

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