

EN10113 S355ML steel plate/sheet for Fine-grain structural steels, thermomechanically rolled steels

EN10113 S355ML steel plate/sheet, EN10113 S355ML steel plate/sheet, under EN standard, we can regard S355ML steel plate/sheet for Fine-grain structural steels, thermomechanically rolled steel.

EN10113 S355ML 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 TStE355TM, NFA36-201 E355FP and ASTM A633Gr.C steel grade.

S355ML EN 10113-3 Number: 1.8834	Comparison of steel grades	
	SEW 083	TStE 355 TM
	NFA 36-201	E 355 FP
	UNI 7382	Fe E 355 KTTM
	BS 4360	50 EE
	ASTM	A 633 Gr.C

Chemical Composition of EN S355ML 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
S355ML	0.14%	0.5%	1.6%	0.025%	0.025%	0.02%	0.02%	0.05%	0.1%	0.05%	0.3%	0.5%	0.1%	0.5%	0.45%

Mechanical Properties of EN S355ML 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)	355	345	335	325	325	320

Nominal thickness(mm)	to 40	40-63	63-80	80-100	100-120
Rm-Tensile strength(Mpa)	470-630	450-610	440-600	440-600	430-590

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Nominal thickness(mm)	-
A-Minimum elongation $L_0=5,65\sqrt{S_0}$ (%)	22

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