

**ASTM A633Gr.C steel plate/sheet for Fine-grain structural steels, thermomechanically rolled steels**

ASTM A633Gr.C steel plate/sheet,ASTM A633Gr.C steel plate/sheet, under ASTM standard, we can regard A633Gr.C steel plate/sheet for Fine-grain structural steels, thermomechanically rolled steel.

ASTM A633Gr.C 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 EN S355ML steel grade.

A633Gr.C ASTM Number:1.8834	Comparision of steel grades	
	SEW 083	TStE 355 TM
	NFA 36-201	E 355 FP
	UNI 7382	Fe E 355 KTTM
	BS 4360	50 EE
	EN 10113-3	S355ML

Chemical Composition of A633Gr.C steel

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	CE V max
A633 Gr.C	0.14 %	0.50 %	1.60 %	0.02 5%	0.02 5%	0.02 %	0.02 %	0.05 %	0.10 %	0.05 %	0.30 %	0.50 %	0.10 %	0.55 %	0.45 %

Mechanical Properties of A633Gr.C 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-Minimun 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
Nominal thickness(mm)	-				
A-Minimum elongation Lo=5.65√So(%)	22				

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