

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

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

ASTM A633Gr.E 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 EN S420ML steel grades.

A633Gr.E ASTM Number:1.8836	Comparision of steel grades	
	SEW 083	TStE 420 TM
	NFA 36-201	E 420 FP
	UNI 7382	-
	BS 4360	-
	EN10113-3	S420ML

Chemical Composition of A633Gr.E 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.E	0.16 %	0.50 %	1.70 %	0.02 5%	0.02 %	0.02 %	0.02 %	0.05 %	0.12 %	0.05 %	0.30 %	0.80 %	0.20 %	0.55 %	0.47 %

Mechanical Properties of A633Gr.E 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

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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