

ASTM A572Gr.60 steel plate/sheet for Fine-grain structural steels, thermomechanically rolled steels

ASTM A572Gr.60 steel plate/sheet, ASTM A572Gr.60 steel plate/sheet, under ASTM standard, we can regard S420M steel plate/sheet for Fine-grain structural steels, thermomechanically rolled steel.

ASTM A572Gr.60 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. The ASTM A572Gr.60 steel is equivalent to SEW TStE420TM, NFA E420R and EN S420M steel grade.

A 572 Gr.60 ASTM Number:1.8825	Comparision of steel grades	
	SEW 083	TStE 420 TM
	NFA 36-201	E 420 R
	UNI 7382	-
	BS 4360	-
	EN 10113-3	S420M

Chemical Composition of ASTM A572Gr.60 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
S420 M	0.16 %	0.50 %	1.70 %	0.03 %	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 ASTM A572Gr.60 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-Minimun 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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