

ASTM A572Gr.65 steel plate/sheet for Fine-grain structural steels, thermomechanically rolled steels

ASTM A572Gr.65 steel plate/sheet, ASTM A572Gr.65 steel plate/sheet, under ASTM standard, we can regard A572Gr.65 steel plate/sheet for Fine-grain structural steels, thermomechanically rolled steel.

ASTM A572Gr.65 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.

A572Gr.65 ASTM Number:1.8838	Comparision of steel grades	
	SEW 083	TStE 460 TM
	NFA 36-201	E 460 FP
	UNI 7382	Fe E 460 KGTM
	BS 4360	55 EE
	EN10113-3	S460ML

Chemical Composition of A572Gr.65 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 ML	0.16 %	0.60 %	1.70 %	0.02 5%	0.02 %	0.02 5%	0.02 %	0.05 %	0.12 %	0.05 %	0.30 %	0.80 %	0.20 %	0.55 %	0.48 %

Mechanical Properties of A572Gr.65 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)	460	440	430	410	400	385

Nominal thickness(mm)	to 40	40-63	63-80	80-100	100-120
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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