

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

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

ASTM A572Gr.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. The ASTM A572Gr.C steel is equivalent to SEW TStE355TM, NFA E355R and EN S355M steel grade.

A572Gr.C ASTM Number:1.8823	Comparision of steel grades	
	SEW 083	StE 355 TM
	NFA 36-201	E 355 R
	UNI 7382	Fe E 355 KGTM
	BS 4360	-
	EN 10113-3	S355M

### Chemical Composition

Grade	C max	Si max	Mn max	P max	S max	N max	AL min	Nb max	V max	Ti max	Cr max	Ni max	Mo max	Cu max	Ce min
A572Gr.C	0.14 %	0.50 %	1.60 %	0.03 0%	0.02 5%	0.01 5%	0.02 %	0.05 %	0.10 %	0.05 %	0.30 %	0.50 %	0.10 %	0.55 %	0.39 %

### Mechanical Properties

Grade	Nom. thick.e	Yield Strength ReH	Tensile Strength ReH	Total Elongation A5	°C	Notch Impact Energy	
						Longitud.	transverse
A572Gr.C	≤16mm	≥355MPa	470-630 MPa		+20	≥55	≥31
	> 16mm	≥345MPa			0	≥47	≥27
	≥3mm			≥22%	-10	≥43	≥24
					-20	≥40	≥20

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