

Carbon and low alloy steel ASTM A572Gr42/50 steel plate

A572Gr42/50 steel plate, ASTM A572Gr42/50 steel plate, under ASTM standard, we can regard A572Gr42/50 steel plate as Carbon and low alloy steel

A572Gr42/50 steel plate is one mainly of Carbon and low alloy steel, ASTM A572Gr42,50,55,60,65 steel is high strength low alloy steel plate sheet which is widely used in plants building, general mansions and all kinds of construction machinery, such as mines and various types of drilling rig used in construction, power shovel, electric wheel dump trucks, mining vehicles,excavators, loaders, bulldozers , various types of cranes, hydraulic support, coal mining machinery and equipments and other structures

A572GR50 ASTM	Comparison of steel grades	
	EN10025:1990	FE 510 B
	DIN17100	ST52-3
	EN 10025-2	S355JR
	JIS	SS490/SM490A
	NFA 35-501	E36-2
	BS1449	50B
	UNI7070	FE 510 B

Chemical analysis -% by mass*

Chemical elements	C≤ 16mm max	C>16mm max	Si max	Mn max	P max.	S max.
%,by mass	0.24	0.24	0.55	1.60	0.045	0.045

Mechanical properties

thickness	Yield StrengthReH [N/mm ²] transv.min.	TensileStrengthRm[N/mm ²]tr ansv.	Fracture Elongation[%] transv. min.	Notch Impact Energy1)Ch Vcomplete samplelongitud. min [J]
t≤ 16mm t >16mm	355 345			20 degree 27J
t < 3mm t ≥ 3mm		510-680 490-630		
Up to 1.5mm			13	
1.51-2.00mm			14	
2.01-2.50mm			15	
2.51-2.99mm ≥ 3mm			16 20	

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Tel:0086-371-86151527

E-mail:bb@bebonchina.com

Fax: 0086-371-86011881

MSN:bebonchina@hotmail.com

Skype: bebonchina

Web:http://www.shipbuilding-steel.com

Oficina Dir: 2801 B# International enterprise center Zhengzhou city in China.