

Fine-grain structural steels, normalised rolled steel A572Gr42 steel plate

A572Gr42/50 steel plate, ASTM A572Gr42/50 steel plate, under ASTM standard, we can regard A572Gr42/50 steel plate as Fine-grain structural steels, normalised rolled steel.

A572Gr42/50 steel plate is one mainly of Fine-grain structural steels, normalised rolled 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

A572Gr.42 ASTM-SAE MATERIAL# 1.0490	Comparison of steel grades	
	UNE36081	AE285KG/AE285KW
	EN 10111	S275N
	DIN1614/2	StE285
	UNI	Fe E 275KG N

Chemical analysis -% by mass*

Chemical elements	C max	Si max	Mn	P max	S max.	Cu max	Cr max	Ni max	V max	Nb max	Al min
%by mass	0.18	0.40	0.50-1.50	0.030	0.025	0.55	0.30	0.30	0.05	0.05	0.02

Mechanical properties

thickness	Yield Strength ReH[N/mm2] transv.min.	TensileStrengthRm[N/mm2]transv.	Fracture Elongation[%]transv. min.	Notch Impact Energy1)Ch Vcomplete samplelongitud. min [J]
t ≤ 16mm t > 16mm	275 265			31J +20 KV
t < 3mm t ≥ 3mm		370-510		27J 0 KV
Up to 1.5mm 1.51-2.00mm 2.01-2.50mm 2.51-2.99mm ≥ 3mm			24	24J -10 KV 20J -20 KV -40 - -50 -

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