

DIN17100 St52-3 low alloy steel

Key words :

St52-3 steel plate, under DIN17100 standard [St52-3 steel plate](#), under DIN17100 standard, we can regard St52-3 steel plate as low alloy steel

St52-3 steel plate is one mainly of low alloy steel, St52-3 steel plate is alloy steel under the DIN17100 standard which is equal to DIN17100:St52-3, JIS:SS490/SM490A, BS:50B and UNI7070:Fe510B

Equivalent grade :

St52-3 steel plate/sheet is in DIN17100 standard. The equal material of St52-3 is: DIN17100:1990 FE 510 B, EN 10025-2 S355JR, ASTM A572GR50, JIS SS490/SM490A, NFA 35-501 E36-2, BS1449 50B, UNI7070 FE 510 B.

Comparison of steel grades

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

DIN17100 St52-3 steel Chemical Composition % :

Main chemical composition in DIN17100 St52-3 steel : Silicium max 0.55 Manganese max 1.6, Phosphorus max 0.045, Sulphur max 0.045. More detailed information, please refer to the flowing table:

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

DIN17100 St52-3 steel Mechanical Properties

DIN17100 St52-3 steel plate/sheet for low alloy steels, This kind of steel has very wide use. Because of the low Carbon content and without alloy element, carbon structural steel has the proper tensile strength, good toughness, plasticity, processing property. More detailed information about DIN17100 St52-3 steel Mechanical Properties , please refer to the following table:

thickness	Yield Strength R_{eH} [N/mm ²] transv.min.	Tensile Strength R_m [N/mm ²]transv.	Fracture Elongation[%]transv. min.	Notch Impact Energy $1)Ch$ Vcomplete samplelongitud. min [J]
t ≤ 16mm	355			
t > 16mm	345			
t < 3mm		510-680		20 degree
t ≥ 3mm		490-630		27J
Up to 1.5mm			13	
1.51-2.00mm			14	

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2.01-2.50mm	15
2.51-2.99mm	16
≥ 3mm	20

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