

Carbon and low alloy steel EN10025 St52-3 steel plate

St52-3 steel plate, under DIN17100 standard St52-3 steel plate, under DIN17100 standard, we can regard St52-3 steel plate as Carbon and low alloy steel

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

ST52-3 DIN17100	Comparison of steel grades	
	EN10025:1990	FE 510 B
	EN 10025-2	S355JR
	ASTM	A572GR50
	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 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			20 degree 27J
t > 16mm	345			
t < 3mm		510-680		
t ≥ 3mm		490-630		
Up to 1.5mm			13	
1.51-2.00mm			14	
2.01-2.50mm			15	
2.51-2.99mm			16	
≥ 3mm			20	

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