

Carbon and low alloy steel EN10025 St37-2 steel plate

St37-2 steel plate, under DIN17100 standard St37-2 steel plate, under DIN17100 standard, we can regard St37-2 steel plate as Carbon and low alloy steel
St37-2 steel plate is one mainly of Carbon and low alloy steel, St37-2 is a type of steel sheet under EN standard which is used to build ship, bridge, belongs to high strength sheet. St37-2 is equivalent to EN:S235JR,JIS:SS400,ASTM:A283C and UNI:FE360B

ST37-2 DIN17100	Comparison of steel grades	
	EN10025:1990	FE E 360 C
	EN 10025-2	S235JR
	NFA 35-501	E24-3
	BS1449	40C
	JIS3106	SM400B
	UNI7070	FE 360 C

Chemical analysis -% by mass*

Chemical elements	C≤ 16mm max	C>16mm max	Si max	Mn max	P max.	S max.
%,by mass	0.17	0.17	--	1.40	0.045	0.045

Mechanical properties

thickness	Yield StrengthReH[N/mm2] transv.min.	TensileStrengthRm[N/mm2]transv.	Fracture Elongation[%]transv. min.	Notch Impact Energy1)Ch Vcomplete samplelongitud. min [J]
t ≤ 16mm t > 16mm	235 225			Degree: 0 AV: 27J
t < 3mm t ≥ 3mm		360-510 340-470		
Up to 1.5mm			16	
1.51-2.00mm			17	
2.01-2.50mm			18	
2.51-2.99mm			19	
≥ 3mm			24	

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