

Carbon and low alloy steel EN10025 SS490 steel plate

SS490 steel plate, JIS3101 SS490 steel plate, under JIS3101 standard, we can regard SS490 steel plate as Carbon and low alloy steel

SS490 steel plate is one mainly of Carbon and low alloy steel, SS490 steel plate is alloy steel under the EN standard which is equal to DIN17100:St52-3, EN10025:S355JR, BS:50B and UNI7070:Fe510B

SS490/SM490A JIS3101	Comparison of steel grades	
	EN10025:1990	FE 510 B
	DIN17100	ST52-3
	ASTM	A572GR50
	EN 10025-2	S355JR
	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.	TensileStrength R_m [N/mm ²]transv.	Fracture Elongation[%] transv. min.	Notch Impact Energy ¹)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			16	
≥ 3mm			20	

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