



SM490A/B/C steel plate, JIS3106 SM490A/B/C steel plate, under JIS3106 standard, we can regard SM490A/B/C steel plate as Carbon and low alloy steel

SM490A/B/C steel plate is one mainly of Carbon and low alloy steel, SM490A/B/C Steel plate is alloy steel under the EN standard which is equal to DIN17100:St52-3, EN 10025-2:S355JR, BS:50B and UNI7070:Fe510B

SS490/SM490A JIS3106	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 StrengthReH[N/mm2] transv.min.	TensileStrengthRm[N/mm2] transv.	Fracture Elongation[%] transv. min.	Notch Impact Energy1)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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