

SM400/SM490 Hot rolled steel plate /sheet always be used in the following field

- (1)SM400 Hot rolled steel used for metallurgical, mechanical, electrical construction field
- (2)SM490 Hot rolled steel used for ships, military (armored) Construction
- (3)SM400/SM490 steel plate /sheet used for outside engineering, machine tool base, automobile rear of products

JIS G 3106-1999

Rolled steels for welded structure

SM400 Hot rolled steel sheet Chemical composition unit%

Symbol	Chemical composition				
	C	Si	Mn	P	S
	max	max		max	max
SM400A	0.23	-	2.5xc min	0.035	0.035
SM400B	0.20	0.35	0.6-1.40	0.035	0.035
SM400C	0.19	0.35	1.4 max	0.035	0.035
SM490A	0.20	0.55	1.6 max	0.035	0.035
SM490B	0.19	0.55	1.6 max	0.035	0.035
SM490C	0.19	0.55	1.6 max	0.035	0.035
SM490YA	0.20	0.55	1.6 max	0.035	0.035
SM490YB	0.20	0.55	1.6 max	0.035	0.035
SM520B	0.20	0.55	1.6 max	0.035	0.035
SM520C	0.20	0.55	1.6 max	0.035	0.035
SM570	0.19	0.55	1.6 max	0.035	0.035

SM400 Hot rolled steel plate Mechanical properties

Symbol	Yield point or proof stress N/mm2 (min)		Tensile strength N/mm2	Elongation		
	Thickness of steel mm		Thickness of steel mm	thinckness	Test piece	% min
	16 or under	Over 16-40	100 or under			
SM400 A				<5 ≥5 <16	NO.5 NO.1A	23 19
SM400 B	245	235	400-510	≥16 <50	NO.1A	22
SM400 C						
SM490 A	325	315	490-610	<5 ≥5 <16	NO.5 NO.1A	22 17

BEBON international — We are specialized in hot rolled steel plate/coil.

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SM490						
B				≥16 <50	NO.1A	21
SM490						
C						
SM490Y				<5	NO.5	19
A	365	355	490-610	≥5 <16	NO.1A	15
SM490Y						
B				≥16 <50	NO.1A	19
SM520				<5	NO.5	19
B	365	355	520-640	≥5 <16	NO.1A	15
SM520						
C				≥16 <50	NO.1A	19
				<5	NO.5	19
SM570	460	450	570-720	≥5 <16	NO.5	26
				≥16 <50	NO.5	20

Symbol of grade	Test temperature °C	Charp Absorption Energy J (min)	Test piece
SM400B	0	27	
SM400C	0	47	
SM490B	0	27	
SM490C	0	47	No.4 in rolling direction
SM490YB	0	27	
SM520B	0	27	
SM520C	0	47	
SM570	-5	47	

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