JIS G3106 SM490A/B/C Channel Steel

JIS G3106 SM490 Channel steel is used for the structure part with high requirement of mechanical property and welding performance in building, bridge, ship, automobile, engineering and construction industry. The main steel grades in the standard JIS G3106 are: SM490A, SM490B, SM490C.

JIS G3106 SM490 super heavy steel plate chemical composition :

Grade	Thickness mm	C ≤	Si ≤	Mn ≤	P ≤	S ≤
SM490A	≤50	0.20	0.55	1.60	0.035	0.035
	50~200	0.22	-	-	-	-
SM490B	≤50	0.18	0.55	1.60	0.035	0.035
	50~200	0.20	-	-	-	-
SM490C	≤100	0.18	0.55	1.60	0.035	0.035
SM490YA SM490YB	≤100	0.20	0.55	1.60	0.035	0.035

Ceq ≤ 0.44 (≤50mm thickness) 0.47 (50~100mm thickness)
Ceq(%)=C+Mn/6+Si/24+Ni/40+Cr/5+Mo/4+V/14

JIS G3106 SM490 super heavy steel plate mechanical properties :

Grade	Tensile test (transverse)							V notch impact test	
	Upper yield strength MPa		Tensile strength MPa	Elongation%			180 °Bend test b≥35mm Inner diameter	Temperature ℃	Energy J
				L=50 b=25		L=200 b=40			
	Nominal thickness mm			Nominal thickness mm					
	≤16	>16		≤5	>5~16	>16			
SM490A	≥325	≥315	490~610	≥22	≥17	≥21	3a	-	-
SM490B	≥325	≥315	490~610	≥22	≥17	≥21	3a	0	≥27
SM490C	≥325	≥315	490~610	≥22	≥17	≥21	3a	0	≥47

SM490 Channel steel is under JIS3106 standard, we can regard SM490A/B/C steel plate as low alloy steel. SM490A/B/C Channel steel is one mainly of low alloy steel, SM490A/B/C Channel steel is alloy steel under the JIS standard which is equal to DIN17100:St52-3, EN 10025-2:S355JR, BS:50B and UNI7070:Fe510B.

We are a professional SM490A/B/C Channel steel exporter, and a steel Stockist in china. We keep more than 1000 tons SM490A/B/C Channel steel in stock every month. As a professional global steel supplier, we promise we can offer you the qualified products. So, if you have any inquiry about SM490A/B/C Channel steel, please do not hesitate to contact us.