

FH40

The steel for shipbuilding and oil platform---FH40, is the high tensile strength steel.

It is the Hull structural steel,with it's good toughness properties, higher strength,strong corrosion-resistance,the processing properties,and welding properties.This kind of steel can be used in the manufacture of the ocean ship's hull structure whose weight is above 10000 tons.

Chemical Composition %

Grade	C max	Si max	Mn	P max	S max	Als min	Ti max	Cu max	Cr max	Ni max	Mo max	Nb	V	N max
FH40	0.16	0.50	0.90 - 1.60	0.025	0.025	0.015	0.02	0.35	0.20	0.80	0.08	0.02 - 0.05	0.05 - 0.10	0.009

Note: Generally speaking CE will be $\leq 0.40\%$. If the delivery condition is TMPC, the CE will be : $\leq 0.40\%$ (thickness $\leq 50\text{mm}$).
 $Ceq\% = (C+Mn)/6+(Cr+Mo+V)/5+(Ni+Cu)/15$.

Mechanical Property

Bebon steel — The most professional exporter on shipbuilding steel

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Grade	Rm (MPa)	Re(MPa)) min	A% min	Ak _v /J min							
				E.T °C		Thickness (mm)					
FH40	510- 660	390	20	-40		≤ 50		>50- 70		>70- 100	
						L	C	L	C	L	C
				4	2	-					
				1	7						

Note: In the list , Rm: tensile strength, Re: Yield strength, A%: elongation, E.T: experimental temperature, L: lengthways, C: crosswise.

Condition Of Delivery

Grade	Fine grains elements	category	The thickness of steel					>50- 100
			≤ 12	>12.5- 20	>20-25	>25-35	>35-50	
FH40	Any	Plate/she et	N, TM, Q&T					-
		Profile steel	N(25), TM(25), Q&T(25)					

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Note: 1. delivery condition: A =Any ; N=Normalized ; CR=Control Rolled ; TM=TMPC,
Temperature - deformation control rolling; AR*= Can be hot rolled with the agreement of
Classification Society ; CR*=Can be control rolled with the agreement of Classification Society .
2. The Figure in the () means the sampling volume to do the impact test, the unit is Ton.(-)
means without impact test.

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