

EH40

The steel for shipbuilding and oil platform---EH40, 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
EH40	0.18	0.50	0.90 - 1.60	0.03 5	0.03 5	0.01 5	0.02	0.35	0.20	0.40	0.08	0.02 - 0.05	0.05 - 0.10

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

Grade	Rm (MPa)	Re(MPa)) min	A% min	Akv/J min

Bebon steel — The most professional exporter on shipbuilding steel

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EH40	510- 660	390	20	E.T °C	Thickness (mm)					
				-20	≤ 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					
			≤ 12	>12.5- 20	>20- 25	>25- 35	>35- 50	>50-100
EH40	any	Plate/ sheet	N, TM, Q&T					-
		Profile steel	N(25), TM(25), Q&T(25)					

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 .

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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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