

## DH40

The steel for shipbuilding and oil platform---DH40, 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
DH40	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

**Bebon steel — The most professional exporter on shipbuilding steel**

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Grade	Rm (MPa)	Re(MPa) ) min	A% min	Ak <sub>v</sub> /J min							
				E.T °C		Thickness (mm)					
DH40	510- 660	390	20	0		≤ 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	
DH40	any	Plate/ sheet	N(50),CR(50),TM(50)					-
		Profile steel						

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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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