

AH40

The steel for shipbuilding and oil platform---AH40, 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
AH40	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	Re(MPa)	A%	Akv/J min
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Bebon steel — **The most professional exporter on shipbuilding steel**

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AH40	(MPa)) min	min	E.T °C						
				Thickness (mm)						
				≤ 50		>50-70		>70-100		
	510-660	390	20	0	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
AH40	any	Plate/ sheet Profile steel	A(50)	N(50),CR(50),TM(50)			-

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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