

## EH36

The steel for shipbuilding and oil platform---DH36, 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
EH36	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 :  $\leq 0.38\%$  (thickness  $\leq 50\text{mm}$ ),  $\leq 0.40\%$  ( when the thickness  $>50-100$ ).

$Ceq\% = (C+Mn)/6+(Cr+Mo+V)/5+(Ni+Cu)/15$ .

### Mechanical Property

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

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Grade	Rm (MPa)	Re(MPa) ) min	A% min	Akv/J min						
				E.T °C	Thickness (mm)					
EH36	490- 630	355	21		-40	≤ 50		>50- 70		>70- 100
				L		C	L	C	L	C
				3		2	4	2	5	34
				4		4	1	7	0	

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
EH36	Any	Plate/sheet	N, TM					
		Profile steel	N(25), TM(25), AR*(15), CR*(15)					-

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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.

Contrast in the different standard

ASTM A131M	TOCT 5521	BS LR	GB712
EH36	E36	EH36	E36

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