

## EH32

The steel for shipbuilding and oil platform---EH32, 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
EH32	0.18	0.50	0.90-1.60	0.035	0.035	0.015	0.02	0.35	0.20	0.40	0.08

Note: Generally speaking CE will be  $\leq 0.40\%$ . If the delivery condition is TMPC, the CE will be :  $\leq 0.36\%$  (thickness  $\leq 50\text{mm}$ ),  $\leq 0.38\%$  ( when the thickness  $>50-100$ ).

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

### Mechanical Property

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

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

Tel:0086-371-86151527

E-mail:bb@bebonchina.com

Fax: 0086-371-86011881

MSN:bebonchina@hotmail.com

Skype: bebonchina

Web:http://www.shipbuilding-steel.com

Oficina Dir: 2801 B# International enterprise center Zhengzhou city in China.

	(MPa)	) min	min							
EH32	440- 570	315	22	E.T °C	Thickness (mm)					
				-40	≤ 50		>50- 70		>70- 100	
					L	C	L	C	L	C
					3	2	3	2	4	31
1	2	8	6	6						

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
EH32	Any	Plate/sheet	N, TM					
		Profile steel	N(25), TM(25), AR*(15), CR*(15)					-

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 .

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

Tel:0086-371-86151527

E-mail:bb@bebonchina.com

Fax: 0086-371-86011881

MSN:bebonchina@hotmail.com

Skype: bebonchina

Web:http://www.shipbuilding-steel.com

Oficina Dir: 2801 B# International enterprise center Zhengzhou city in China.

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	JIS G3106	BS LR	GB712
EH32	E32	SM490B SM490C	EH32	E32

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

Tel:0086-371-86151527

E-mail:bb@bebonchina.com

Fax: 0086-371-86011881

MSN:bebonchina@hotmail.com

Skype: bebonchina

Web:http://www.shipbuilding-steel.com

Oficina Dir: 2801 B# International enterprise center Zhengzhou city in China.