

AH36

The steel for shipbuilding and oil platform---AH36, 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
AH36	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**

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.



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Henan BEBON international co.,ltd

Grade	Rm (MPa)	Re(MPa)) min	A% min	Akv/J min						
				E.T °C	Thickness (mm)					
AH36	490- 630	355	21		0	≤ 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
AH36	Nb+V or V	Plate/ sheet	A(50	N(50),CR(50),TM(50)				N(50),CR(25),TM(50)
		Profile steel)	N(50),CR(50),TM(50),AR*(25)				-
	Al or Al+Ti	Plate/ sheet	A(50)	AR*(25)		-		N(50),CR(25),TM(50)

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		Profile steel	A(50)	N(50),CR(50),TM(50),AR*(25)	-
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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
AH36	A36	AH36	A36

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