FH40

The steel for shipbuilding and oil platform---FH40, is the high tensile strength steel. It is the Hull structural steel, with its 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 %

<table>
<thead>
<tr>
<th>Grade</th>
<th>C max</th>
<th>Si max</th>
<th>Mn max</th>
<th>P max</th>
<th>S max</th>
<th>Als min</th>
<th>Ti max</th>
<th>Cu max</th>
<th>Cr max</th>
<th>Ni max</th>
<th>Mo max</th>
<th>Nb max</th>
<th>V max</th>
<th>N max</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH40</td>
<td>0.16</td>
<td>0.50</td>
<td>0.90 - 1.60</td>
<td>0.02</td>
<td>0.02</td>
<td>0.01</td>
<td>0.0</td>
<td>0.3</td>
<td>0.2</td>
<td>0.8</td>
<td>0.0</td>
<td>0.02 - 0.05</td>
<td>0.0</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Note: Generally speaking CE will be ≤ 0.40%. If the delivery condition is TMPC, the CE will be: ≤ 0.40% (thickness ≤ 50mm). 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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<table>
<thead>
<tr>
<th>Grade</th>
<th>Rm (MPa)</th>
<th>Re(MPa) min</th>
<th>A% min</th>
<th>Akv/J min</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH40</td>
<td>510-660</td>
<td>390</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

Note: In the list, Rm: tensile strength, Re: Yield strength, A%: elongation, E.T: experimental temperature, L: lengthways, C: crosswise.

Condition Of Delivery

<table>
<thead>
<tr>
<th>Grade</th>
<th>Fine grains elements</th>
<th>category</th>
<th>The thickness of steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH40</td>
<td>Any</td>
<td>Plate/sheet</td>
<td>N,TM,Q&amp;T</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Profile steel</td>
<td>N(25),TM(25),Q&amp;T(25)</td>
</tr>
</tbody>
</table>

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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.