### Chemical Composition of quenched and tempered High Strength Low Alloy Steels HY 80 and HY 100**

** According to “Germanischer Lloyd – Rules for Classification and Construction / Materials and Welding / Metallic Materials / Special Materials for Naval Ships”

<table>
<thead>
<tr>
<th>Designation</th>
<th>C %</th>
<th>Si %</th>
<th>Mn %</th>
<th>P %</th>
<th>S %</th>
<th>Cr %</th>
<th>Mo %</th>
<th>Ni %</th>
<th>As %</th>
<th>Cu %</th>
<th>Sb %</th>
<th>Sn %</th>
<th>Ti %</th>
<th>V %</th>
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</thead>
<tbody>
<tr>
<td>GL M-550</td>
<td>Min.</td>
<td>.12</td>
<td>.15*</td>
<td>.10</td>
<td>-</td>
<td>1.0</td>
<td>.20</td>
<td>2.0</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td></td>
<td>Max.</td>
<td>.18</td>
<td>.35</td>
<td>.40</td>
<td>.015</td>
<td>.008</td>
<td>.60</td>
<td>3.25</td>
<td>.025</td>
<td>.25</td>
<td>.025</td>
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<td>.030</td>
<td>.030</td>
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<td>-</td>
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</tbody>
</table>

*When Vacuum Carbon Deoxidation: Si<sub>Min</sub> = .05%