Applications

- Shipbuilding
- Motorboats
- Aircraft structures
- Truck bodies
- Pylons & towers
- Rail coaches

Product Description

6061 aluminium is an American alloy and one of most versatile of the heat-treatable alloys. The alloy is typically used in heavy duty structures. It is a medium to high strength heat-treatable material with very good corrosion resistance and medium fatigue strength. 6061 in the annealed condition offers excellent weldability and formability and is readily disposed to furnace brazing.

Chemical Composition (weight %)

<table>
<thead>
<tr>
<th></th>
<th>Mn</th>
<th>Fe</th>
<th>Mg</th>
<th>Si</th>
<th>Cu</th>
<th>Zn</th>
<th>Ti</th>
<th>Cr</th>
<th>Al</th>
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</thead>
<tbody>
<tr>
<td>min.</td>
<td></td>
<td>0.80</td>
<td>0.40</td>
<td>0.15</td>
<td></td>
<td></td>
<td>0.04</td>
<td></td>
<td>Bal</td>
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<tr>
<td>max.</td>
<td>0.15</td>
<td>0.70</td>
<td>1.20</td>
<td>0.80</td>
<td>0.40</td>
<td>0.25</td>
<td>0.15</td>
<td>0.35</td>
<td>Bal</td>
</tr>
</tbody>
</table>

Key features:

- Medium to high strength heat-treatable alloy
- Medium fatigue strength
- Very good corrosion resistance
- Typically used in heavy duty structures

Corrosion Resistance

Very good

Availability

Sheet, plate and extrusions

Technical Assistance

Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.

All information in our data sheet is based on approximate testing and is stated to the best of our knowledge and belief. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of trading.

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