TITANIUM ALLOY

TYPICAL APPLICATIONS
Jet engine compressors
Airframe structures
High performance racing engine components

PRODUCT DESCRIPTION
6-2-4-2 is a weldable, near-alpha titanium alloy offering excellent mechanical strength, stability and creep resistance to temperatures as high as 550°C. Corrosion resistance is good. The weldability of 6-2-4-2 alloy is fair. Density is 4.54 g/cc.

MATERIAL SPECIFICATIONS

CHEMICAL COMPOSITION (WEIGHT %)

<table>
<thead>
<tr>
<th>C</th>
<th>N</th>
<th>O</th>
<th>Fe</th>
<th>Al</th>
<th>Sn</th>
<th>Zn</th>
<th>Mo</th>
<th>Si</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min.</td>
<td>5.5</td>
<td>1.75</td>
<td>3.5</td>
<td>1.75</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Max.</td>
<td>0.08</td>
<td>0.05</td>
<td>0.12</td>
<td>0.25</td>
<td>6.5</td>
<td>2.25</td>
<td>4.5</td>
<td>2.25</td>
<td>0.10</td>
</tr>
</tbody>
</table>

MECHANICAL PROPERTIES (MINIMA AT RT FOR DIPLEX ANNEALED BAR)

<table>
<thead>
<tr>
<th>UTS, MPa</th>
<th>0.2% PS, MPa</th>
<th>Elongation, % in 51mm GL</th>
<th>Reduction in area, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>896</td>
<td>827</td>
<td>10</td>
<td>25</td>
</tr>
</tbody>
</table>

The nominal hardness is 34 HRC.

TECHNICAL SALES ASSISTANCE
Our resident team of qualified metallurgists and engineers will be pleased to assist further on any technical topic.

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