T64
Technical Datasheet

Carbon Manganese Steel Tube

Typical Applications

• Undercarriage components
• Seating in aircraft
• Motorsport engine applications

Product Description

T64 is a carbon manganese steel with a high tensile strength and a hardness lower than that of T45. Despite this, it remains very lightweight and is the reason why it is so popular in aerospace and motorsport applications. The strength and weight ratio is very good.

Key features:

• High strength
• Good hardness
• Carbon manganese

Chemical Composition (weight %)

<table>
<thead>
<tr>
<th>Fe</th>
<th>C</th>
<th>Cr</th>
<th>Mn</th>
<th>Mo</th>
<th>Ni</th>
<th>P</th>
<th>S</th>
<th>Si</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min</td>
<td>Bal</td>
<td>0.17</td>
<td>1.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.1</td>
</tr>
<tr>
<td>Max</td>
<td>Bal</td>
<td>0.25</td>
<td>0.25</td>
<td>1.7</td>
<td>0.1</td>
<td>0.4</td>
<td>0.04</td>
<td>0.35</td>
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</table>

Mechanical Properties

<table>
<thead>
<tr>
<th>Tensile strength</th>
<th>550-750 N/mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yield strength</td>
<td>460 N/mm²</td>
</tr>
<tr>
<td>Hardness</td>
<td>152-217 HB</td>
</tr>
</tbody>
</table>

Corrosion Resistance

Good

Availability

Tube

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.

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