### Applications
- Aerospace fittings
- Military vehicles
- High strength structural components
- Aircraft structures and truck frames
- Structural applications

### Product Description
L105 is a high strength aluminium alloy tube product supplied in the T4 temper which retains its strength after heat treatment. It is a 4 - 5% copper alloy and is supplied in the fully heat-treated condition (solution heat treated & artificially aged). L105 aluminium alloy tube is normally stocked in the T5 temper in pipe/tube form. The material offers very good machinability. L105 is used widely in the aerospace and defence sector in the manufacture of high strength components.

### Key features:
- Heat treatable
- Good strength after heat treatment
- Easily plated
- Can be hard anodised

### Corrosion Resistance
Resistanceto atmospheric attack is poor.

### Machinability
Very good

### Availability
Pipe, tube

### Chemical Composition (weight %)

<table>
<thead>
<tr>
<th>Weight (%)</th>
<th>Si</th>
<th>Fe</th>
<th>Cu</th>
<th>Mn</th>
<th>Mg</th>
<th>Cr</th>
<th>Ni</th>
<th>Zn</th>
<th>Pb</th>
<th>Sn</th>
<th>Ti + Zr</th>
</tr>
</thead>
<tbody>
<tr>
<td>min.</td>
<td>0.5</td>
<td>3.9</td>
<td>0.4</td>
<td>0.2</td>
<td></td>
<td>0.1</td>
<td>0.2</td>
<td>0.2</td>
<td>0.05</td>
<td>0.05</td>
<td>0.2</td>
</tr>
<tr>
<td>max.</td>
<td>0.9</td>
<td>0.5</td>
<td>5.0</td>
<td>1.2</td>
<td>0.8</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.05</td>
<td>0.05</td>
<td>0.2</td>
</tr>
</tbody>
</table>

### Mechanical Properties

<table>
<thead>
<tr>
<th>0.2% Proof Stress</th>
<th>Tensile Strength (min)</th>
<th>Strip Test Piece (min %)</th>
</tr>
</thead>
<tbody>
<tr>
<td>290 N/mm²</td>
<td>400 N/mm²</td>
<td>10</td>
</tr>
</tbody>
</table>

### 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.