Typical Applications
- Aerospace Components
- Defence Components
- High Technology Applications

Product Description
A high strength 3.8 to 4.9% Copper alloy in drawn, rolled or cold finished form. Solution heat treated and controlled stretched to achieve the T351 condition, produced to the American Standard.

BS/EN Euronom  - EN 573 / 754
AECMA Euronom  - BS Pr EN 2704

Surface Treatment
Anodising  
- Protective - Fair  
- Bright - Variable  
- Hard - Good  
- Colour - Fair (Dark Colours Only)

Plating  
- Very good  
- Vitreous Enamelling  
- Unsuitable

Weldability
- Brazing & Soldering  
- Oxygen  
- Inert Gas  
- Resistance, Spot, Beam  
- Not recommended  
- Not recommended  
- Excellent

Corrosion Resistance
Resistance to Atmospheric Attack - Poor

Mechanical Properties (minima, T351 condition)

<table>
<thead>
<tr>
<th>Size Range (in)</th>
<th>Tensile Strength (ksi)</th>
<th>0.2% Proof Stress (ksi)</th>
<th>Elongation on 50mm (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.50 - 6.50</td>
<td>62</td>
<td>45</td>
<td>10</td>
</tr>
</tbody>
</table>

Cut Size to Sawn Blanks
Cut to length + 1.0mm - NIL

Chemical Composition (weight %)

<table>
<thead>
<tr>
<th></th>
<th>Al</th>
<th>Si</th>
<th>Fe</th>
<th>Cu</th>
<th>Mn</th>
<th>Mg</th>
<th>Cr</th>
<th>Zn</th>
<th>Ti</th>
<th>Others</th>
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</thead>
<tbody>
<tr>
<td>Min.</td>
<td>REM</td>
<td>0.3</td>
<td>1.2</td>
<td>0.05</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.05</td>
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<tr>
<td>Max.</td>
<td>0.5</td>
<td>0.5</td>
<td>4.9</td>
<td>0.9</td>
<td>1.8</td>
<td>0.1</td>
<td>0.25</td>
<td>0.15</td>
<td>0.15</td>
<td></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.

www.smithmetal.com  sales@smithmetal.com

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