Typical Applications

- Aerospace Components
- Defence Components
- High Technology Applications

Product Description

A high strength 3.8 to 4.9% Copper alloy rolled sheet, alclad to 1.5% nominal material thickness, solution heat-treated, cold worked and naturally aged to achieve a substantially 'T3' condition, made to the American Standards. Also generally available in 'O' annealed condition for more severe bending, forming or spinning operations; further details available on request.

AECMA Euronorm - BS EN 2090 (T3)

Surface Treatment

Anodising
- Protective - Excellent
- Bright - Very Good
- Hard - Excellent
- Colour - Excellent

Plating
- Very Good

Vitreous Enamelling
- Good

Weldability

Please contact our Technical Department.

Formability

Good

Corrosion Resistance

Resistance to Atmospheric Attack - Very Good

Cut Size to Guillotined Blanks

Edge deviation over cut length/width ± 0.2mm per m (maximum thickness 6.35mm)

Chemical Composition (weight %, core)

<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>
</tr>
</thead>
<tbody>
<tr>
<td>Min.</td>
<td>REM</td>
<td>3.8</td>
<td>0.3</td>
<td>1.2</td>
<td>0.05 each (max)</td>
<td>0.05 each (max)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max.</td>
<td>REM</td>
<td>0.50</td>
<td>0.50</td>
<td>4.9</td>
<td>1.8</td>
<td>0.10</td>
<td>0.25</td>
<td>0.15</td>
<td>0.15 total</td>
<td></td>
</tr>
</tbody>
</table>

Mechanical Properties (minima, T3 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>0.008 - 0.009</td>
<td>58</td>
<td>39</td>
<td>10</td>
</tr>
<tr>
<td>0.010 - 0.020</td>
<td>59</td>
<td>39</td>
<td>12</td>
</tr>
<tr>
<td>0.021 - 0.062</td>
<td>59</td>
<td>39</td>
<td>15</td>
</tr>
<tr>
<td>0.063 - 0.128</td>
<td>61</td>
<td>40</td>
<td>15</td>
</tr>
<tr>
<td>0.129 - 0.249</td>
<td>62</td>
<td>40</td>
<td>15</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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