Typical Applications

- Aerospace Components
- Defence Components
- High Technology Applications

Product Description

A medium strength alloy, made to the American Standard. Solution treated, artificially aged and controlled stretched to achieve the T651 condition, in drawn, rolled or cold worked bar, profile and wire form.

BS/EN Euronorm - EN 573 / 754
AECMA Euronorm - BS EN 2702
- BS Pr EN 2700

Surface Treatment

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

Plating & Vitreous Enamelling
A special pre-treatment is required for successful result

Weldability

Brazing & Soldering
- Good
Oxygen
- Fair
Inert Gas
- Very Good
Resistance, Spot, Beam
- Very Good

Corrosion Resistance

Resistance to Atmospheric Attack - Good

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>
</tr>
</thead>
<tbody>
<tr>
<td>Min.</td>
<td>REM</td>
<td>0.40</td>
<td>0.15</td>
<td></td>
<td>0.8</td>
<td>0.04</td>
<td></td>
<td></td>
<td>0.05</td>
<td>each (max)</td>
</tr>
<tr>
<td>Max.</td>
<td>REM</td>
<td>0.80</td>
<td>0.70</td>
<td>0.40</td>
<td>0.15</td>
<td>1.2</td>
<td>0.35</td>
<td>0.25</td>
<td>0.15</td>
<td>total</td>
</tr>
</tbody>
</table>

Mechanical Properties (Minima)

<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>Up to 8 in.</td>
<td>42</td>
<td>35</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.

www.smithmetal.com
sales@smithmetal.com

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