Typical Applications
• Aerospace Components
• Defence Components
• High Technology Applications

Product Description
A high strength 5.1 to 6.1% Zinc alloy solution heat treated and artificially aged to achieve the T6 condition. Also generally available in the ‘O’ condition for more severe, bending and forming operations.

AECMA Euronorm - BS EN 2092 (T6)

Production Tolerances
Manufacturing limits are as stated in AMS QQA 250. For further assistance please contact our Sales Dept / Laboratory.

Cut Size to Guillotined Blanks
Edge deviation over cut length/width +/- 0.2mm per m (maximum thickness 6.35mm)

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

Plating & Vitreous Enamelling
Special pre-treatment necessary to achieve successful results

Weldability
Please contact our Technical Department

Formability
Fair for ‘O’ condition.

Corrosion Resistance
Resistance to Atmospheric Attack - Very Good

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></td>
<td></td>
<td>1.2</td>
<td></td>
<td>2.1</td>
<td></td>
<td>0.18</td>
<td>5.10</td>
<td>0.05 each (max)</td>
</tr>
<tr>
<td>Max.</td>
<td>REM</td>
<td>0.40</td>
<td>0.50</td>
<td>2.0</td>
<td>0.30</td>
<td>2.9</td>
<td>0.28</td>
<td>6.10</td>
<td>0.20</td>
<td>0.15 total</td>
</tr>
</tbody>
</table>

Mechanical Properties (minima, ALCLAD, T6 condition)

<table>
<thead>
<tr>
<th>Size Range (in)</th>
<th>Tensile Strength (ksi)</th>
<th>0.2% Proof Stress (ksi)</th>
<th>Elongation on 5.65V%S(%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.008 – 0.011</td>
<td>68</td>
<td>58</td>
<td>5</td>
</tr>
<tr>
<td>0.012 – 0.039</td>
<td>71</td>
<td>61</td>
<td>8</td>
</tr>
<tr>
<td>0.040 – 0.062</td>
<td>72</td>
<td>62</td>
<td>9</td>
</tr>
<tr>
<td>0.063 – 0.125</td>
<td>74</td>
<td>64</td>
<td>9</td>
</tr>
<tr>
<td>0.126 – 0.187</td>
<td>74</td>
<td>64</td>
<td>9</td>
</tr>
</tbody>
</table>

NB: Figures shown above are for ‘T6’ condition.

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.