L163
Technical Datasheet

Aluminium Alclad Sheet

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

Product Description
A high strength 3.9 to 5% Copper alloy rolled sheet, clad with 1050A, solution heat treated, cold worked and naturally aged to a substantially stable condition, to achieve T3 condition.

General Engineering Old BS - HC15TB (BS 1470)
AECMA Euronorm - None

Surface Treatment
- Anodising: Protective - Excellent
  Bright - Very Good
  Hard - Excellent
  Colour - Excellent
  Vitreous Enamelling - Good
- Plating: Very Good

Weldability
Please contact our Technical Department.

Machinability
Very Good

Corrosion Resistance
Resistance to Atmospheric Attack - Fair

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

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>Ni</th>
<th>Zn</th>
<th>Ti+Zr</th>
<th>Ti</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min</td>
<td>0.50</td>
<td>Rem</td>
<td>3.9</td>
<td>0.40</td>
<td>0.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.05 ea (max)</td>
</tr>
<tr>
<td>Max</td>
<td>0.90</td>
<td>0.50</td>
<td>5.0</td>
<td>1.20</td>
<td>0.80</td>
<td>0.10</td>
<td>0.10</td>
<td>0.25</td>
<td>0.20</td>
<td>0.15</td>
<td>0.15 Total</td>
<td></td>
</tr>
</tbody>
</table>

Mechanical Properties (Minima)

<table>
<thead>
<tr>
<th>Size Range (mm)</th>
<th>Tensile Strength (MPa)</th>
<th>0.2% Proof Stress (MPa)</th>
<th>Elongation on 50mm (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.4 - 0.8</td>
<td>385</td>
<td>245</td>
<td>13</td>
</tr>
<tr>
<td>0.8 - 1.6</td>
<td>385</td>
<td>245</td>
<td>14</td>
</tr>
<tr>
<td>1.6 - 6.0</td>
<td>390</td>
<td>250</td>
<td>14</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.

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