L160
Technical Datasheet

Aluminium Extrusion Bar, Tube, Special Shape


Typical Applications

- Aerospace & Defence Components
- High Technology Applications

Product Description

A high strength 5.1 to 6.1% Zinc alloy, produced in extruded bar and profile form. Solution treated and artificially over-aged to achieve best stress corrosion resistance and controlled stretched (T73511 condition).

BS/EN Euronorm
AECMA Euronorm
- EN 573 / 755
- BS EN 2127, 2632
- BS Pr EN 2315

Surface Treatment

Anodising
Protective - Fair
Bright - Variable
Hard - Fair
Colour - Fair

Plating
Vitreous Enamelling
N/A

Weldability

Brazing & Soldering
Not Recommended

Oxygen
Not Recommended

Inert Gas
Not Recommended

Resistance, Spot, Beam
Very Good

Machinability

Very Good

Cut Size to Size Sawn Blanks

Cut to Length + 1.0mm - NIL

Corrosion Resistance

Resistance to Atmospheric Attack - Fair

Production Tolerances

Manufacturing limits are as stated in BS L100. For further assistance please contact our Sales Dept / Laboratory.

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+Zr</th>
<th>Ti</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min.</td>
<td>Rem</td>
<td>0.4</td>
<td>0.5</td>
<td>0.1</td>
<td>2.1</td>
<td>0.18</td>
<td>0.18</td>
<td>6.1</td>
<td>0.25</td>
<td>0.20</td>
<td>0.05</td>
</tr>
<tr>
<td>Max.</td>
<td>Rem</td>
<td>0.4</td>
<td>0.5</td>
<td>2.0</td>
<td>0.3</td>
<td>2.9</td>
<td>0.28</td>
<td>6.1</td>
<td>0.25</td>
<td>0.20</td>
<td>0.05</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 5.65%S9(%)</th>
<th>Elongation on 50mm (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>- to 10</td>
<td>470</td>
<td>400</td>
<td>8</td>
<td>7</td>
</tr>
<tr>
<td>10 to 20</td>
<td>485</td>
<td>420</td>
<td>8</td>
<td>-</td>
</tr>
<tr>
<td>20 to 50</td>
<td>485</td>
<td>415</td>
<td>8</td>
<td>-</td>
</tr>
<tr>
<td>50 to 75</td>
<td>475</td>
<td>410</td>
<td>8</td>
<td>-</td>
</tr>
<tr>
<td>75 to 100</td>
<td>450</td>
<td>380</td>
<td>7</td>
<td>-</td>
</tr>
<tr>
<td>100 to 150</td>
<td>425</td>
<td>365</td>
<td>7</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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