

Typical Applications

- Aerospace Components
- Defence Components
- High Technology Applications

Product Description

A high strength 5.1 to 6.1% Zinc alloy. Solution treated, artificially aged and controlled stretched to achieve the T651 condition, in drawn, rolled, cold finished wire, bar and profile form.

BS/EN Euronorm - EN 573 / 754
AECMA Euronorm - No Current Norm

Production Tolerances

Manufacturing limits are as stated in AMS QQA 225 . For further assistance please contact our Sales Dept / Laboratory.

Machinability

Very Good

Surface Treatment

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

Plating N/A
Vitreous Enamelling N/A

Weldability

Brazing & Soldering - Not recommended
Oxygen - Not recommended
Inert Gas - Not recommended
Resistance, Spot, Beam - Very Good

Corrosion Resistance

Resistance to Atmospheric Attack - Fair

Cut Size to Sawn Blanks

Cut to length + 1.0mm - NIL

Chemical Composition (weight %)

| | Al | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti | Others |
|------|-----|------|------|-----|------|------|------|-----|------|-----------------|
| Min. | REM | | | 1.2 | | 2.10 | 0.18 | 5.1 | | 0.05 each (max) |
| Max. | REM | 0.40 | 0.50 | 2.0 | 0.30 | 2.90 | 0.28 | 6.1 | 0.20 | 0.15 Total |

Mechanical Properties (minima, T651 condition)

| Size Range (in) | Tensile Strength (ksi) | 0.2% Proof Stress (ksi) | Elongation on 50mm (%) |
|-----------------|------------------------|-------------------------|------------------------|
| Up to 4.000 | 77 | 66 | 7 |

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.

UK Service Centres:

Smiths Belfast 02895 908 897
Smiths Biggleswade 01767 604 704
Smiths Birmingham 0121 728 4940
Smiths Bristol 0117 971 2800
Smiths Chelmsford 01245 466 664
Smiths Gateshead 0191 469 5428
Smiths Horsham 01403 261 981

Smiths Leeds 0113 307 5167
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Smiths Norwich 01603 789 878
Smiths Nottingham 0115 925 4801
Smiths Redruth 01209 315 512
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Quality & Testing:



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