

Typical Applications

- Aerospace Components
- Defence Components
- High Technology Applications

Product Description

A high strength 3.8 to 4.9% Copper alloy in drawn, rolled or cold finished form. Solution heat-treated and controlled stretched to achieve the T351 condition, produced to the American Standard.

BS/EN Euronorm - EN 573 / 754
AECMA Euronorm - BS Pr EN 2704

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 - Good
Colour - Fair (Dark Colours Only)

Plating

Very good

Vitreous Enamelling

Unsuitable

Weldability

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

Corrosion Resistance

Resistance to Atmospheric Attack - Poor

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 | | | 3.8 | 0.3 | 1.2 | | | | 0.05 |
| Max. | REM | 0.5 | 0.5 | 4.9 | 0.9 | 1.8 | 0.1 | 0.25 | 0.15 | 0.15 |

Mechanical Properties (minima, T351 condition)

| Size Range (in) | Tensile Strength (ksi) | 0.2% Proof Stress (ksi) | Elongation on 50mm (%) |
|-----------------|------------------------|-------------------------|------------------------|
| 0.50 - 6.50 | 62 | 45 | 10 |

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

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|-----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|-------------------------|-------------------------|
| Biggleswade 01767 604604 | Birmingham 0121 7284940 | Bristol 0117 9712800 | Chelmsford 01245 466664 | Gateshead 0191 4695428 | Horsham 01403 261981 | Leeds 0113 3075167 |
| London 020 72412430 | Manchester 0161 7948650 | Nottingham 0115 9254801 | Norwich 01603 789878 | Redruth 01209 315512 | Verwood 01202 824347 | General 0845 5273331 |



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