

Typical Applications

- Aerospace Components
- Defence Components
- High Technology Applications

Product Description

A high strength 3.8 to 4.9% Copper alloy in extruded bar and profile form. Solution heat-treated and controlled stretched to achieve the T3511 condition, produced to the American Standard.

General Engineering Euronorm - EN 573 / 755
 AECMA Euronorm - BS EN 2318, 2633
 - BS Pr EN 2321, 2638

Production Tolerances

Manufacturing limits are as stated in AMS QQA 200. 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				
Max.	REM	0.5	0.5	4.9	0.9	1.8	0.1	0.25	0.15	0.15 Total, 0.05 each

Mechanical Properties (minima, T3511 condition)

Size Range (in)	Tensile Strength (ksi)	0.2% Proof Stress (ksi)	Elongation on 5.65√S ⁰ (%)	Elongation on 4D (%)
Up to 0.249	57	42	-	12
0.250 - 0.749	60	44	-	12
0.750 - 1.499	65	46	-	10
1.500 and over up to 25 sq. in	70	52	-	10
1.500 and over up to 32 sq. in	68	48	-	8

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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