

#### 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 <sup>0</sup> (%)	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	70	52	-	10
up to 25 sq. in				
1.500 and over	68	48	-	8
up to 32 sq. in				

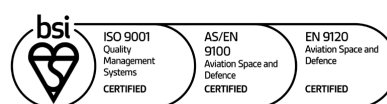
#### Technical Assistance

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	<b>02895 908 897</b>	Smiths Leeds	<b>0113 307 5167</b>
Smiths Biggleswade	<b>01767 604 704</b>	Smiths London	<b>020 7241 2430</b>
Smiths Birmingham	<b>0121 728 4940</b>	Smiths Manchester	<b>0161 794 8650</b>
Smiths Bristol	<b>0117 971 2800</b>	Smiths Norwich	<b>01603 789 878</b>
Smiths Chelmsford	<b>01245 466 664</b>	Smiths Nottingham	<b>0115 925 4801</b>
Smiths Gateshead	<b>0191 469 5428</b>	Smiths Redruth	<b>01209 315 512</b>
Smiths Horsham	<b>01403 261 981</b>	Smiths Verwood	<b>01202 824 347</b>

#### Quality & Testing:



**0845 527 3331**

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