

#### 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 T6511 condition, in extruded bar and profile form.

BS/EN Euronorm - EN 573 / 755  
AECMA Euronorm - BS Pr EN 2394, 2631

#### 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 - 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		2.1	0.18	5.1		0.05 Each (max)
Max.	REM	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.15

#### Mechanical Properties (minima, T6511 condition)

Size Range (in)	Tensile Strength (ksi)	0.2% Proof Stress (ksi)	Elongation on 4D (%)
Up to 0.249	78	70	7
0.250 - 0.499	81	73	7
0.500 - 1.499	81	72	7
1.500 - 2.999	81	72	7
3.000 - 4.499	78	70	6
Up to 20 sq. in			
4.500 - 5.000	78	68	6

#### 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  
Smiths Manchester 0161 794 8650  
Smiths Norwich 01603 789 878  
Smiths Nottingham 0115 925 4801  
Smiths Redruth 01209 315 512  
Smiths Verwood 01202 824 347  
Main Office 0845 527 3331

#### Quality & Testing:



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