

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.

www.smithmetal.com

sales@smithmetal.com

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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