

ALUMINIUM EXTRUSION ROD, BAR, SHAPES, TUBE, WIRE

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.

General Engineering Euronorm - EN 573 / 755

AECMA Euronorm - BS Pr EN 2394, 2631

STOCK RANGE

Round Bar : 9/16" to 9" Diameter
 (14.28 to 228.6mm)

Flat & Squares : 1 1/2" Square to 8" X 6"
 (38.1mm Square to 203.2 X 152.4mm)

CUT TO SIZE SAWN BLANKS

Cut to Length + 1.0mm - NIL

MACHINABILITY

Very Good

CHEMICAL COMPOSITION (WEIGHT %)

	Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others
Min	REM			1.20		2.10	0.18	5.10		0.05 Each (Max)
Max	REM	0.40	0.50	2.00	0.30	2.90	0.28	6.10	0.20	0.15 Total

MECHANICAL PROPERTIES (MINIMA)

Size Range (in)	Tensile Strength (ksi)	0.2% Proof Stress (ksi)	Elongation on 5.65 √ S ₀ (%)	Elongation on 50mm (%)
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	81	71	-	7
Up to 20 sq. in				
3.000 - 4.499	78	70	-	6
20 - 32 sq. in				
4.500 - 5.000	78	68	-	6

TECHNICAL SALES ASSISTANCE

Our resident team of qualified metallurgists and engineers will be pleased to assist further on any technical topic.

CORROSION RESISTANCE

Resistance to Atmospheric Attack

Fair

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

PRODUCTION TOLERANCES

Manufacturing limits are as stated in the Tables 11.2 to 11.14 of U.S. Aluminium Standards & Data. For further assistance please contact our Sales Dept / Laboratory.

Smiths High Performance

Unit O, Stratton Business Park, London Road, Biggleswade, Bedfordshire SG18 8QB United Kingdom

Tel: +44 (0) 1767 604 708

Fax: +44 (0) 01767 312 885

Email: sales@smithshp.com

Website: www.smithshp.com

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