

ALUMINIUM EXTRUSION BAR, TUBE, SPECIAL SHAPE

TYPICAL APPLICATIONS

Aerospace & Defence Components
High Technology Applications

PRODUCT DESCRIPTION

A high strength 5.1 to 6.1% Zinc alloy, produced in extruded bar and profile form. Solution treated and artificially over-aged to achieve best stress corrosion resistance and controlled stretched (T73511 condition).

General Engineering Euronorm - EN 573 / 755
AECMA Euronorm - BS EN 2127, 2632
BS Pr EN 2315

STOCK RANGE

Round Bar : 1/2" to 8" Diameter
(12.7 to 203.2mm)

Flat & Squares : Various

CUT TO SIZE SAWN BLANKS

Cut to Length + 1.0mm - NIL

MACHINABILITY

Very Good

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 Section 5 of BS 4L100 – Tables 5 (C1, 2, 3, 4, 5, 6, 7 & 8). For further assistance please contact our Sales Dept / Laboratory.

CHEMICAL COMPOSITION (WEIGHT %)

	Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti + Zr	Ti	Others
Min	REM			1.2		2.1	0.18	5.1			
Max	REM	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.25	0.20	0.05

MECHANICAL PROPERTIES (MINIMA)

Size Range (mm)		Tensile Strength (MPa)	0.2% Proof Stress (MPa)	Elongation on $5.65 \sqrt{S_0}$ (%)	Elongation on 50mm (%)
Over	Up to & Including				
-	10	470	400	8	7
10	20	485	420	8	-
20	50	485	415	8	-
50	75	475	410	8	-
75	100	450	380	7	-
100	150	425	365	7	-

TECHNICAL SALES ASSISTANCE

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

Smiths High Performance

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