

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).

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

Production Tolerances

Manufacturing limits are as stated in BS L100. For further assistance please contact our Sales Dept / Laboratory.

Cut Size to Size Sawn Blanks

Cut to Length + 1.0mm - NIL

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

Machinability

Very Good

Corrosion Resistance

Resistance to Atmospheric Attack - Fair

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√S ₀ (%)	Elongation on 50mm (%)
- to 10	470	400	8	7
10 to 20	485	420	8	-
20 to 50	485	415	8	-
50 to 75	475	410	8	-
75 to 100	450	380	7	-
100 to 150	425	365	7	-

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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