

Aluminium Tube

Typical Applications

- Aerospace Components
- Defence Components
- High Technology Applications

Product Description

A medium strength drawn seamless tube, solution heat-treated and artificially aged to achieve at the 'T6' condition. Also available in 'O' (annealed) and 'T4' (solution heat-treated only) conditions to accommodate various degrees of bending and forming.

General Engineering Equivalent - 6082T6
 BS/EN Euronorm - EN 573 / 754
 Old BS - HT30TF (BS1471)
 AECMA Euronorm - No Current Norm

Corrosion Resistance

Resistance to Atmospheric Attack - Good

Surface Treatment

Anodising

Protective - Good
 Bright - Fair
 Hard - Good / Very Good
 Colour - Good

Plating & Vitreous Enamelling

Special pre-treatment necessary to achieve successful results

Weldability

Brazing & Soldering - Good
 Oxygen - Fair
 Inert Gas - Very Good
 Resistance, Spot, Beam - Very Good

Machinability

Good

Chemical Composition (weight %)

	Al	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Pb	Sn
Min.	Rem	0.7			0.4	0.5						
Max.	Rem	1.3	0.5	0.1	1.0	1.2	0.25	0.1	0.2	0.2	0.05	0.05

Mechanical Properties (Minima)

Size Range	Tensile Strength (MPa)	0.2% Proof Stress (MPa)	Elongation on 50mm (%)
Up to 6mm wall	310	255	7
6 to 10mm wall	310	240	9

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
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 Smiths Norwich 01603 789 878
 Smiths Nottingham 0115 925 4801
 Smiths Redruth 01209 315 512
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Quality & Testing:



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