

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

### STOCK RANGE

**0.315" O/D X 0.040" Wall to 2" O/D X 20 SWG  
(8mm O/D X 1mm Wall to 50.8mm X 0.914mm)**

### CUT TO SIZE SAWN BLANKS

Cut To Length +1.0mm - NIL

### MACHINABILITY

Good.

### CORROSION RESISTANCE

Resistance to Atmospheric Attack  
Good

### SURFACE TREATMENT

#### Anodising

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

#### Plating

Special pre-treatment necessary to achieve successful results

#### Vitreous Enamelling

As Plating.

### WELDABILITY

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

### PRODUCTION TOLERANCES

Manufacturing limits are as stated in the Annex G of BS 4L100 – Tables 20 (C1 and G1, 2 & 3). For further assistance please contact our Sales Dept / Laboratory.

### 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 5.65 √S <sub>0</sub> (%)	Elongation on 50mm (%)
Up to 6mm Wall	310	255	-	7
6 To 10mm Wall	310	240	-	9

### TECHNICAL SALES ASSISTANCE

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

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