

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 $5.65 \sqrt{S_0}$ (%)	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.

Thames Stockholders

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