

Aluminium Sheet

Typical Applications

- Aerospace Components, Eg: Shelves, Trays, Filters.
- Defence Components
- High Technology Applications

Product Description

A medium strength rolled sheet, solution heat-treated and artificially aged to achieve 'T6' condition. Also available in 'O' (annealed) and 'T4' (solution heat-treated only) conditions, to accommodate various degrees of forming, drawing or spinning operations.

General Engineering Equivalent - 6082T6
 BS/EN Euronorm - EN 485/515/573
 Old BS - HS30TF (BS1470)
 AECMA Euronorm - None

Production Tolerances

For further assistance please contact our Sales Dept / Laboratory.

Cut Size to Guillotined Blanks

Edge deviation over cut length/width +/- 0.2mm per m (maximum thickness 6.35mm)

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

Formability

Good

Corrosion Resistance

Resistance to Atmospheric Attack - 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 (mm)	Tensile Strength (MPa)	0.2% Proof Stress (MPa)	Elongation on 5.65√S ⁰ (%)	Elongation on 50mm (%)
0.2 to 3.0	295	255	-	8
3.0 to 6.0	295	240	-	8

NB: Figures shown above are for 'T6' condition.

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**

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 Smiths Norwich **01603 789 878**
 Smiths Nottingham **0115 925 4801**
 Smiths Redruth **01209 315 512**
 Smiths Verwood **01202 824 347**
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Quality & Testing:



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