

Aluminium Alclad Sheet

Typical Applications

- Aerospace Components
- Defence Components
- High Technology Applications

Product Description

A high strength 5.1 to 6.1% Zinc alloy solution heat treated and artificially aged to achieve the T6 condition. Also generally available in the 'O' condition for more severe, bending and forming operations.

AECMA Euronorm - BS EN 2092 (T6)

Production Tolerances

Manufacturing limits are as stated in AMS QQA 250. 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 - Excellent
Bright - Very Good
Hard - Excellent
Colour - Very Good

Plating & Vitreous Enamelling

Special pre-treatment necessary to achieve successful results

Weldability

Please contact our Technical Department

Formability

Fair for 'O' condition.

Corrosion Resistance

Resistance to Atmospheric Attack - Very Good

Chemical Composition (weight %)

	Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others
Min.	REM			1.2		2.1	0.18	5.10		0.05 each (max)
Max.	REM	0.40	0.50	2.0	0.30	2.9	0.28	6.10	0.20	0.15 total

Mechanical Properties (minima, ALCLAD, T6 condition)

Size Range (in)	Tensile Strength (ksi)	0.2% Proof Stress (ksi)	Elongation on 5.65√S ⁰ (%)
0.008 – 0.011	68	58	5
0.012 – 0.039	71	61	8
0.040 – 0.062	72	62	9
0.063 – 0.125	74	64	9
0.126 – 0.187	74	64	9

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**

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**
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Quality & Testing:



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