

Aluminium Alclad Sheet

Typical Applications

- Aerospace Components
- Defence Components
- High Technology Applications

Product Description

A high strength 3.8 to 4.9% Copper alloy rolled sheet, alclad to 1.5% nominal material thickness, solution heat-treated, cold worked and naturally aged to achieve a substantially 'T3' condition, made to the American Standards. Also generally available in 'O' annealed condition for more severe bending, forming or spinning operations; further details available on request.

AECMA Euronorm - BS EN 2090 (T3)

Production Tolerances

Manufacturing limits are as stated in AMS QQA 250. For further assistance please contact our Sales Dept / Laboratory.

Machinability

Good

Surface Treatment

Anodising
Protective - Excellent
Bright - Very Good
Hard - Excellent
Colour - Excellent

Plating
Very Good
Vitreous Enamelling
Good

Weldability

Please contact our Technical Department.

Formability

Good

Corrosion Resistance

Resistance to Atmospheric Attack - Very Good

Cut Size to Guillotined Blanks

Edge deviation over cut length/width $\pm 0.2\text{mm}$ per m (maximum thickness 6.35mm)

Chemical Composition (weight %, core)

	Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others
Min.	REM			3.8	0.3	1.2				0.05 each (max)
Max.	REM	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.15 total

Mechanical Properties (minima, T3 condition)

Size Range (in)	Tensile Strength (ksi)	0.2% Proof Stress (ksi)	Elongation on 50mm (%)
0.008 - 0.009	58	39	10
0.010 - 0.020	59	39	12
0.021 - 0.062	59	39	15
0.063 - 0.128	61	40	15
0.129 - 0.249	62	40	15

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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