

ALUMINIUM SHEET

TYPICAL APPLICATIONS

Aerospace Components
Defence Components
High Technology Applications

PRODUCT DESCRIPTION

A medium strength alloy grade to the American Standard, solution treated and artificially aged to achieve the T6 condition. Also available in the 'O'(annealed) and 'T4' (solution treated only) conditions to accommodate various degrees of forming, drawing or spinning operations.

General Engineering Equivalent - 6061
General Engineering Euronorm - EN 485/515/573
Old BS - HS20TF (BS1470)
AECMA Euronorm - BS EN 2694, 3341

STOCK RANGE

0.010" to 0.249" Thick
(0.254 to 6.32mm)

CUT TO SIZE GUILLOTINED BLANKS

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

FORMABILITY

Good.

CORROSION RESISTANCE

Resistance to Atmospheric Attack
Good

SURFACE TREATMENT

Anodising

Protective - Good
Bright - Fair
Hard - 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 Table 7.7b to 7.18 in U.S. Aluminium Standards and Data. For further assistance please contact our Sales Dept / Laboratory.

CHEMICAL COMPOSITION (WEIGHT %)

	Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others
Min	REM	0.40		0.15		0.8	0.04			0.05 Each (Max)
Max	REM	0.80	0.70	0.40	0.15	1.2	0.35	0.25	0.15	0.15 Total

MECHANICAL PROPERTIES (MINIMA)

Size Range (in)	Tensile Strength (ksi)	0.2% Proof Stress (ksi)	Elongation on 5.65 √ S ₀ (%)	Elongation on 50mm (%)
0.010 – 0.020	38	32	8	-
0.021 – 0.249	38	32	10	-

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

TECHNICAL SALES ASSISTANCE

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

Advanced Metals International

Unit O, Stratton Business Park, London Road, Biggleswade, Bedfordshire SG18 8QB United Kingdom

Tel: +44 (0) 1767 604 710 Fax: +44 (0) 01767 315 340 Email: sales@advancedmetals.com Website: www.advancedmetals.com

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