

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.

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