

### 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  
 BS/EN Euronorm - EN 485/515/573  
 Old BS - HS20TF (BS1470)  
 AECMA Euronorm - BS EN 2694, 3341

#### 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 - Good  
 Bright - Fair  
 Hard - 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	Zn	Ti	Others
Min.	REM	0.4		0.15		0.8	0.04			0.05 each
Max.	REM	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.15 total

#### Mechanical Properties (minima, T6 condition)

Size Range (in)	Tensile Strength (ksi)	0.2% Proof Stress (ksi)	Elongation on 4D (%)
0.010 - 0.020	42.0	35.0	8
0.021 - 0.249	42.0	35.0	10

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  
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##### Quality & Testing:



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