

## ALUMINIUM DRAWN/ROLLED/COLD FINISHED, BAR, ROD, WIRE, SHAPES

### TYPICAL APPLICATIONS

Aerospace Components  
Defence Components  
High Technology Applications

### PRODUCT DESCRIPTION

A medium strength alloy, made to the American Standard. Solution treated, artificially aged and controlled stretched to achieve the T651 condition, in drawn, rolled or cold worked bar, profile and wire form.

General Engineering Euronorm - EN 573 / 754  
AECMA Euronorm - BS EN 2702  
BS Pr EN 2700

### STOCK RANGE

**Round Bar** : 1/2" to 8" Diameter  
(12.7mm to 203.2mm Diameter)

**Flat & Squares** : Various

### CUT TO SIZE SAWN BLANKS

Cut to Length + 1.0mm - NIL

### MACHINABILITY

Very Good

### CORROSION RESISTANCE

Resistance to Atmospheric Attack  
Good

### SURFACE TREATMENT

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

Plating  
A special pre-treatment is required for successful result  
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 the Tables 10.12 to 10.20 of U.S. Aluminium Standards & 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	Tensile Strength (ksi)	0.2% Proof Stress (ksi)	Elongation on 5.65 √S <sub>0</sub> (%)	Elongation on 50mm (%)
Up to 8 in	42	35	-	10

### TECHNICAL SALES ASSISTANCE

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

### Smiths High Performance

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

Tel: +44 (0) 1767 604 708

Fax: +44 (0) 01767 312 885

Email: sales@smithshp.com

Website: www.smithshp.com

All information in this data sheet is based on approximate testing and is stated to the best of our knowledge and belief. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of trading. © Smiths Metal Centres Ltd 2007