

## 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.

**Biggleswade**  
 01767 604704

**Birmingham**  
 01889 576117

**Bristol**  
 0117 971 2800

**Chelmsford**  
 01245 466664

**Ferndown**  
 01202 893755

**Gateshead**  
 0191 469 5428

**Horsham**  
 01403 261981

**Leeds**  
 0113 307 5167

**London**  
 020 7241 2430

**Nottingham**  
 0115 925 4801

**Norwich**  
 01603 789878

**www.smithmetal.com**  
**sales@smithmetal.com**