

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

### TYPICAL APPLICATIONS

Aerospace Components  
 Defence Components  
 High Technology Applications

### PRODUCT DESCRIPTION

A high strength 3.8 to 4.9% Copper alloy in drawn, rolled or cold finished form. Solution heat-treated and controlled stretched to achieve the T351 condition, produced to the American Standard.

General Engineering Euronorm - EN 573 / 754  
 AECMA Euronorm - BS Pr EN 2704

### CORROSION RESISTANCE

Resistance to Atmospheric Attack  
 Poor

### SURFACE TREATMENT

Anodising  
 Protective - Fair  
 Bright - Variable  
 Hard - Good  
 Colour - Fair (Dark Colours Only)

Plating  
 Very Good

Vitreous Enamelling  
 Unsuitable

### STOCK RANGE

**Round Bar** : 1/2" to 7" Diameter  
 (12.7 to 177.8mm Diameter)

**Flat & Squares** : 1/2" to 6" Square  
 (12.7 to 152.4mm Square)

### WELDABILITY

Brazing & Soldering - Not Recommended  
 Oxygen - Not Recommended  
 Inert Gas - Not Recommended  
 Resistance, Spot, Beam - Excellent

### CUT TO SIZE SAWN BLANKS

Cut to Length + 1.0mm - NIL

### MACHINABILITY

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			3.8	0.3	1.2				0.05 Each Max
Max	REM	0.5	0.5	4.9	0.9	1.8	0.1	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 <sub>0</sub> (%)	Elongation on 50mm (%)
0.50 – 6.50	62	45	-	10

### TECHNICAL SALES ASSISTANCE

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

### Thames Stockholders

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