

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

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)

CUT TO SIZE SAWN BLANKS

Cut to Length + 1.0mm - NIL

MACHINABILITY

Very Good

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

WELDABILITY

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

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 ₀ (%)	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.

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