

ALUMINIUM EXTRUSION, ROD, BAR, SHAPES, TUBE, WIRE

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 T6511 condition, in extruded bar and profile form.

General Engineering Old B.S. - HE20TF (BS1474)
 General Engineering Euronorm - EN 573 / 755
 AECMA Euronorm - BS EN 2702

STOCK RANGE

Round Bar : 1/4" to 11" Diameter
 (6.35 to 279.4mm)
Flat & Squares : 1/4" Square to 10" X 8"
 (6.35mm Square to 254 X 203.2mm)

CUT TO SIZE SAWN BLANKS

Cut to Length + 1.0mm - NIL

MACHINABILITY

Very Good

CHEMICAL COMPOSITION (WEIGHT %)

	Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others
Min	REM	0.40		0.15		0.80	0.04			0.05 Each (Max)
Max	REM	0.80	0.70	0.40	0.15	1.20	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 ₀ (%)	Elongation on 50mm (%)
6.35mm and over	38	35		10

TECHNICAL SALES ASSISTANCE

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

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 results

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 11.2 to 11.14 of U.S. Aluminium Standards & Data. For further assistance please contact our Sales Dept / Laboratory.

Thames Stockholders

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