

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

Production Tolerances

Manufacturing limits are as stated in AMS QQA 200. For further assistance please contact our Sales Dept / Laboratory.

Machinability

Very Good

Surface Treatment

Anodising

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

Plating & Vitreous Enamelling

A special pre-treatment is required for successful results

Weldability

Brazing & Soldering - Good
 Oxygen - Fair
 Inert Gas - Very good
 Resistance, Spot, Beam - Very good

Corrosion Resistance

Resistance to Atmospheric Attack - Good

Cut Size to Sawn Blanks

Cut to length + 1.0mm - NIL

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, bar, T651 condition)

Size Range	Tensile Strength (MPa)	0.2% Proof Stress (MPa)	Elongation (%)
6.35mm and over Bar T6511	262	241	10

Technical Assistance

Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.

UK Service Centres:

Smiths Belfast **02895 908 897**
 Smiths Biggleswade **01767 604 704**
 Smiths Birmingham **0121 728 4940**
 Smiths Bristol **0117 971 2800**
 Smiths Chelmsford **01245 466 664**
 Smiths Gateshead **0191 469 5428**
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Quality & Testing:



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