

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.

BS/EN Euronorm - EN 573 / 754
 AECMA Euronorm - BS EN 2702
 - BS Pr EN 2700

Production Tolerances

Manufacturing limits are as stated in AMS QQA 225. 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 result

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		0.8	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 (in)	Tensile Strength (ksi)	0.2% Proof Stress (ksi)	Elongation on 50mm (%)
Up to 8 in.	42	35	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
 Smiths Horsham 01403 261 981

Smiths Leeds 0113 307 5167
 Smiths Manchester 0161 794 8650
 Smiths Norwich 01603 789 878
 Smiths Nottingham 0115 925 4801
 Smiths Redruth 01209 315 512
 Smiths Verwood 01202 824 347
 Main Office 0845 527 3331

Quality & Testing:



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