

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.

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

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 - 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

Corrosion Resistance

Resistance to Atmospheric Attack - Poor

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			3.8	0.3	1.2				0.05
Max.	REM	0.5	0.5	4.9	0.9	1.8	0.1	0.25	0.15	0.15

Mechanical Properties (minima, T351 condition)

Size Range (in)	Tensile Strength (ksi)	0.2% Proof Stress (ksi)	Elongation on 50mm (%)
0.50 - 6.50	62	45	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:



www.smithmetal.com info@smithmetal.com