AMS QQA 200/3 2024

Technical Datasheet



Aluminium Extrusion, Rod, Bar, Shapes, Tube, Wire

Service. Quality. Value.

Typical Applications

- Aerospace Components
- **Defence Components**
- High Technology Applications

Product Description

A high strength 3.8 to 4.9% Copper alloy in extruded bar and profile form. Solution heat-treated and controlled stretched to achieve the T3511 condition, produced to the American Standard.

General Engineering Euronorm AECMA Euronorm

- EN 573 / 755
- BS EN 2318, 2633
- BS Pr EN 2321, 2638

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 - Fair Bright - Variable

Hard - Good

Colour - Fair (Dark Colours Only)

Plating Very Good

Vitreous Enamelling Unsuitable

Weldability

Brazing & Soldering - Not Recommended - Not Recommended Oxygen 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				
Max.	REM	0.5	0.5	4.9	0.9	1.8	0.1	0.25	0.15	0.15 Total, 0.05 each

Mechanical Properties (minima, T3511 condition)									
Size Range	Tensile Strength	0.2% Proof Stress	Elongation on	Elongation on					
(in)	(ksi)	(ksi)	5.65√S ^o (%)	4D (%)					
Up to 0.249	57	42	-	12					
0.250 - 0.749	60	44	-	12					
0.750 - 1.499	65	46	-	10					
1.500 and over	70	52	-	10					
up to 25 sq. in									
1.500 and over	68	48	-	8					
up to 32 sq. in									

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:

02895 908 897 0113 307 5167 Smiths Belfast Smiths Leeds Smiths Biggleswade 01767 604 704 Smiths Manchester 0161 794 8650 Smiths Birmingham **0121 728 4940** Smiths Norwich 01603 789 878 Smiths Bristol 0117 971 2800 Smiths Nottingham **0115 925 4801** Smiths Chelmsford 01245 466 664 Smiths Redruth 01209 315 512 Smiths Gateshead 0191 469 5428 Smiths Verwood 01202 824 347 Main Office Smiths Horsham 01403 261 981 0845 527 3331

Quality & Testing:





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