AMS QQA 225/6 2024

DATA SHEET

ALUMINIUM DRAWN/ROLLED/COLD FINISHED, BAR, ROD, WIRE, SHAPES

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.
General Engineering Euronorm - EN 573 / 754
AECMA Euronorm - BS Pr EN 2704

STOCK RANGE

Round Bar : 1/2" to 7" Diameter (12.7 to 177.8mm Diameter)

Flat & Squares : 1/2" to 6" Square (12.7 to 152.4mm Square)

CUT TO SIZE SAWN BLANKS

Cut to Length + 1.0mm - NIL

MACHINABILITY

Very Good

CORROSION RESISTANCE

Resistance to Atmospheric Attack
Poor

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

PRODUCTION TOLERANCES

Manufacturing limits are as stated in the Tables 10.12 to 10.20 of U.S. Aluminium Standards & Data. For further assistance please contact our Sales Dept / Laboratory.

CHEMICAL COMPOSITION (WEIGHT %)

	Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others
Min	REM			3.8	0.3	1.2				0.05 Each Max
Max	REM	0.5	0.5	4.9	0.9	1.8	0.1	0.25	0.15	0.15 Total

MECHANICAL PROPERTIES (MINIMA)

Size Range (in)	Tensile Strength (ksi)	0.2% Proof Stress (ksi)	Elongation on $5.65\sqrt{S_0}$ (%)	Elongation on 50mm (%)
0.50 – 6.50	62	45	-	10

TECHNICAL SALES ASSISTANCE

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

Smiths High Performance
Unit O, Stratton Business Park, London Road, Biggleswade, Bedfordshire SG18 8QB United Kingdom
Tel: +44 (0) 1767 604 708 Fax: +44 (0) 01767 312 885 Email: sales@smithshp.com Website: www.smithshp.com