2014A Aluminium Tube

Smiths Advanced Metals

Rev: SAM/datasheets/aluminium/2014a-tube/feb-2022

Tubes with good machinability

2014A aluminium tubes offer good machinability with high mechanical properties.

Aluminium alloy 2014a is a high strength alloy containing 4% to 5 % copper.

Finished components typically require a protective coating to avoid corrosion. Cold formability can be limited once the alloy is fully heat-treated, as weldability is limited too.

We stock 2014a aluminium tubes in a wide range of sizes and tempers (including T3, T4, T6 or T8 tempers).

Grades / Specifications

- **BS L63**
- **BS L105**
- **BS L100**
- BS EN 573, BS EN 755, BS EN 754

Cut to bespoke shape service:

We offer a complete tube cutting service utilising a range of in-house equipment. Tubes are cut to tight tolerances to match our clients' needs, and in many cases, this added value service removes requirements for further cutting.

Technical sales support:

To find out more about the 2014a aluminium tube and for other technical advice, contact Smiths Advanced Metals today. Our team of qualified metallurgists and engineers will be pleased to assist further on any technical topic.

ADVANCED METALS	
Page: 1 of 1	

Key Applications

- Structural aerospace applications
- Military vehicles
- **Bridges**

Benefits

- High mechanical strength
- Excellent resistance to fatigue
- Excellent machinability

Physical Properties

Melting Range (°C)

Electrical Conductivity (20°C, % IACS)

Modulus of Elasticity (x10³, N/mm²)

Thermal Conductivity (% IACS)

Temper Density (g/cm³)

Chemic	al Comp	osition	(weight %)										
	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Zr+Ti	Each	Other	Al
min.	0.50		3.90	0.40	0.20								Rem
max.	0.90	0.50	5.00	1.20	0.80	0.10	0.10	0.25	0.15	0.20	0.05	0.15	

Mechanical Properties (minimum values unless stated)							
Temper	MPa _{Rm}	MPa R _{p0,2}	Elongation A (%)	Hardness HBW Typical			
Т3	380	290	8	110			
T4	380	240	12	110			
Т6	450	380	8	140			

Based on wall thickness \leq 20 mm.
Properties as per BS EN 754-2

www.smithsadvanced.com



Stratton Business Park, London Road, Biggleswade, Bedfordshire SG18 8QB

Tel: +44 (0) 1767 604710



All information in our data sheet is based on approximate testing and is stated to the best of our knowledge and belief. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of trading.

© Smiths Advanced Metals 2023



Т4

2.80

34

36.1

73



T6

2.80

40

39.8

73

505-640 505-640