7075 Aluminium Tube

Smiths Advanced Metals

Rev: SAM/datasheets/aluminium/7075-tube/feb-2022

Superior Strength & Hardness

7075 is used to make highly stressed parts

7075 aluminium tube combines high tensile and yield strength to create an alloy that offers excellent hardness and fracture toughness.

The product should be considered for use in applications where high strength is a critical aspect, and high corrosion resistance is not a requirement. 7075 tube offers reasonable machinability and can be easily formed in the annealed condition. The alloy may be spot or flash welded. As a high strength alloy, our material offers an excellent strength to weight ratio, which is why 7075 alloy is a favoured material in aerospace and motorsport applications.

7075 aluminium tube offers good stress corrosion cracking resistance (SSC). We stock aluminium tubes are produced to tight tolerances.

We have stock availability of **7075** aluminium tubes in a wide range of sizes and tempers, including T6, T73, T7351 and T76.

Grades / Specifications

- AMSWWT700/7
- AMSQQA200/11
- BS EN 573, BS EN 755, BS EN 754



Key Applications

- High stressed parts
- Motorsport components
- Aerospace structural parts
- Bulkheads
- Bridges & cranes

Chemical Composition (weight %)											
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others (ea)	Others (total)	Al
min.			1.20		2.10	0.18	5.10				Rem
max.	0.40	0.50	2.00	0.30	2.90	0.28	6.10	0.20	0.05	0.15	

$Mechanical \ Properties \ (min. \ drawn \ tube, \ wall \ thickness \le 20 mm)$								
Temper	MPa _{Rm}	MPa R _{p0,2}	Elongation A(%)	Hardness HBW Typical				
Т6	540	485	7	150				
T73	455	385	10	135				

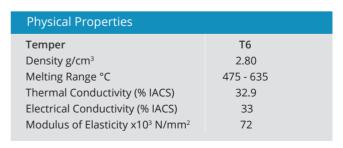
Properties	as per	BS	ΕN	754-2
------------	--------	----	----	-------

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.



Page: 1 of 1