

L63

Technical Datasheet



Service. Quality. Value.

Drawn Aluminium Tube

Applications

- Aerospace fittings
- Military vehicles
- Aircraft structures and truck frames
- Structural applications
- High strength structural components

Product Description

L63 is a high strength aluminium alloy tube product which retains its strength after heat treatment. It is a 4 - 5% copper alloy and is supplied in the fully heat-treated condition (solution heat treated & artificially aged). L63 is used widely in the aerospace and defence sector in the manufacture of high strength components. L63 aluminium alloy tube is normally stocked in the T6 temper in pipe/tube form. The material offers very good machinability.

Key features:

- Heat treatable
- Good strength after heat treatment
- Easily plated
- Can be hard anodised

Corrosion Resistance

Resistance to atmospheric attack is poor.

Machinability

Very good

Availability

Pipe, tube

Chemical Composition (weight %)

Weight (%)	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti + Zr
min.	0.5		3.9	0.4	0.2						
max.	0.9	0.5	5.0	1.2	0.8	0.1	0.2	0.2	0.05	0.05	0.2

Mechanical Properties

0.2% Proof Stress	370 N/mm ²
Tensile Strength (min)	450 N/mm ²
Strip Test Piece (min %)	7

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**
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Smiths Nottingham **0115 925 4801**
Smiths Redruth **01209 315 512**
Smiths Verwood **01202 824 347**
Main Office **0845 527 3331**

Quality & Testing:



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