

# 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 <sup>2</sup>
Tensile Strength (min)	450 N/mm <sup>2</sup>
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.

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