

### Aluminium Tube

#### Applications

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

#### Product Description

L105 is a high strength aluminium alloy tube product supplied in the T4 temper 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). L105 aluminium alloy tube is normally stocked in the T5 temper in pipe/tube form. The material offers very good machinability. L105 is used widely in the aerospace and defence sector in the manufacture of high strength components.

#### 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	290 N/mm <sup>2</sup>
Tensile Strength (min)	400 N/mm <sup>2</sup>
Strip Test Piece (min %)	10

### 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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