

L105

Technical Datasheet



Service. Quality. Value.

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 ²
Tensile Strength (min)	400 N/mm ²
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.

UK Service Centres:

Smiths Belfast **02895 908 897**
 Smiths Biggleswade **01767 604 704**
 Smiths Birmingham **0121 728 4940**
 Smiths Bristol **0117 971 2800**
 Smiths Chelmsford **01245 466 664**
 Smiths Gateshead **0191 469 5428**
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 Smiths Nottingham **0115 925 4801**
 Smiths Redruth **01209 315 512**
 Smiths Verwood **01202 824 347**
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Quality & Testing:



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