

Aluminium Tube

Applications

- Shipbuilding
- Motorboats
- Aircraft structures
- Truck bodies
- Pylons & towers
- Rail coaches

Key features:

- Medium to high strength heat-treatable alloy
- Medium fatigue strength
- Very good corrosion resistance
- Typically used in heavy duty structures

Product Description

L117 is based on the aluminium material designation 6061. L117 aluminium tube is the least expensive and most versatile of the heat-treatable alloys. It is a medium to high strength heat-treatable material with very good corrosion resistance and medium fatigue strength. L117 is a tube product supplied in the T6 annealed condition, offering excellent weldability and formability and is readily disposed to furnace brazing. The alloy is typically used in heavy duty structures.

Corrosion Resistance

Very good

Availability

Pipe, Tube

Chemical Composition (weight %)

	Al	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Other
min.	Rem	0.4		0.15		0.8	0.04				0.05
max.	Rem	0.8	0.7	0.40	0.15	1.2	0.35		0.25	0.15	0.15

Mechanical Properties

	0.2% Proof Stress (min)	Tensile Strength (min)	Full Tube Section (min, %)	Strip Test Piece (min, %)
Up to 1mm	240 N/mm ²	290 N/mm ²	10	8
1.0mm to 5.0mm	240 N/mm ²	290 N/mm ²	12	10
5.0mm to 10.0mm	240 N/mm ²	290 N/mm ²	14	12

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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