

L56

Technical Datasheet



Service. Quality. Value.

Hydraulically Tested Aluminium Tube

Typical Applications

- Higher strength sheet
- Metal work
- Packaging
- Boilermaking
- Heat transfer devices
- Chemical industry
- Pharmaceutical
- Architectural panelling
- Welded structures
- Offshore applications
- Cabinets
- Appliances
- Pressure vessels
- Panelling

Product Description

L56 is an alloyed non-heat treatable tube product where higher mechanical properties are required together with a degree of formability. Hydraulically tested, L56 alloy tubes are supplied in the 'O' temper condition. Boasting very good corrosion resistance, the material is ideally suited for offshore applications. Normal, industrial and marine atmospheres promote few problems. L56 aluminium alloy tubes are based on the 5251 aluminium material designation.

Welding

Easily welded

Cold Formability

Reasonable cold formability

Surface Treatment

L54 has very good anodising properties, for both decorative and technical requirements.

Corrosion Resistance

L56 aluminium has very good corrosion resistance and can be used in normal, industrial and marine environments without problems. It is particularly suited to offshore applications.

Availability

Pipe, tube

Chemical Composition (weight %)

| | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Pb | Sn | Ti + Zr | Mn + Cr |
|-----|-----|-----|-----|-----|-----|------|-----|-----|------|------|---------|---------|
| Min | | | | | 1.7 | | | | | | | |
| Max | 0.5 | 0.5 | 0.1 | 0.5 | 2.4 | 0.25 | 0.2 | 0.2 | 0.05 | 0.05 | 0.2 | 0.5 |

Typical Mechanical Properties

| | |
|---------------------------|------------------------------|
| 0.2% Proof Strength (min) | 60 N/mm ² |
| Tensile Strength | 160 to 200 N/mm ² |
| Strip Test Piece (min, %) | 18 |

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
Smiths Horsham 01403 261 981

Smiths Leeds 0113 307 5167
Smiths Manchester 0161 794 8650
Smiths Norwich 01603 789 878
Smiths Nottingham 0115 925 4801
Smiths Redruth 01209 315 512
Smiths Verwood 01202 824 347
Main Office 0845 527 3331

Quality & Testing:



www.smithmetal.com info@smithmetal.com

All information in our data sheet is based on approximate testing and is stated to the best of our knowledge and belief. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of trading.