

# 5251 Aluminium Tube

Smiths Advanced Metals

## Tubing for Marine Applications

5251 tube offers high corrosion resistance.

5251 aluminium drawn tubes offer outstanding corrosion resistance, especially in marine atmospheres.

The material is a medium strength alloy, which is readily weldable and finds use in various commercial applications. The quarter hard temper allows this alloy to undergo limited bending and forming operations.

5251 benefits from good ductility and formability. Excellent thermal conductivity and low density are also a feature which is common in the majority of commercial aluminiums. Though common in the marine sector, 5251 also finds use in applications, including architectural and general metalworking.

We have available [5251 aluminium tubes](#) in a wide range of sizes and tempers, including H12 and O.



## Grades / Specifications

- BS L56
- BS L100
- BS EN 573, BS EN 755, BS EN 754

## Key Applications

- Marine components
- Welded structures
- Aircraft parts

### Chemical Composition (weight %)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others (ea)	Others (total)	Al
min.				0.10	1.70						Rem
max.	0.40	0.50	0.15	0.50	2.40	0.15	0.15	0.15	0.05	0.15	

### \*Mechanical Properties (min. values)

Temper	MPa $R_m$	MPa $R_{p0.2}$	Elongation A (%)	Hardness HBW Typical
O	150 - 200	60	17	45
H12	180 - 220	110	5	60

\* Wall thicknesses: O temper =  $\leq$  20mm. H12 temper =  $\leq$  10mm.

Properties as per BS EN 754-2

## Processing Options

We also offer an in-house processing service where we will cut your aluminium tubes to specific lengths. Our service makes us a one-stop shop for all your aluminium tubing requirements.

