Aluminium Alloy
6L17 'O' Sheet

SPECIFICATIONS

Commercial	1200

6L17 - 1200 is a commercially pure aluminium sheet that may be clad with alloy 7072 for better protection against stress corrosion cracking.

CHEMICAL COMPOSITION

BS 6L17(1985)
Alloy 6L17

Element	% Present
Aluminium (Al)	99 min
Silicon + Iron (Si+Fe)	1 max
Others (Total)	0.15 max
Zinc (Zn)	0.1 max
Titanium (Ti)	0.05 max
Other (Each)	0.05 max
Manganese (Mn)	0.05 max
Copper (Cu)	0.05 max

The material shall be supplied cold rolled and annealed (Condition O).

No heat treatment is required.

ALLOY DESIGNATIONS

Aluminium alloy 6L17 - 1200 is covered by Standard BS EN 6L17 (1985)

TEMPER TYPES

The most common temper for 6L17 - 1200 aluminium are:

- O - Soft

SUPPLIED FORMS

6L17 - 1200 aluminium is supplied as soft sheet and strip

- Sheet
- Strip

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.59 g/cm³
Melting Point	657 °C
Thermal Expansion	23.4 x10^{-6} /K
Modulus of Elasticity	69 GPa
Thermal Conductivity	225 W/m.K
Electrical Resistivity	58.5 % IACS

MECHANICAL PROPERTIES

BS 6L17(1985)
Sheet
0.4mm to 0.8mm

Property	Value
Proof Stress	25 Min MPa
Tensile Strength	70 Min - 105 Max MPa
Elongation A50 mm	20 Min %

The specification covers sheet and stip of 99% aluminium.

The elongation value shown in the mechanical properties table apply to material with nominal thickness 0.4mm up to and including 0.8mm.

Different values for additional nominal thicknesses are shown in the specification.

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CONTACT

Address: (incorporated in the USA)
Tel: +44 (0)1371 811 642
Email: info@aerometalsalliance.com

REVISION HISTORY

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