Aluminium Alloy
6L16 H14/H24 Sheet

GOULD ALLOYS
THE LEADING EDGE IN METALS

SPECIFICATIONS

Commercial	1200

6L16 - 1200 is a commercially pure aluminium sheet that may be clad with alloy 7072 for better protection against stress corrosion cracking.

CHEMICAL COMPOSITION

BS 6L16(1985)
Alloy 6L16

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

The material shall be supplied cold rolled (temper designation H14), or cold rolled and partially annealed (temper designation H24).

No heat treatment is required.

ALLOY DESIGNATIONS

Aluminium alloy 6L16 - 1200 is covered by Standard BS EN 6L16 (1985)

TEMPER TYPES

The most common tempers for 6L16 - 1200 aluminium are:

- H14 - Work hardened by rolling to half hard, not annealed after rolling
- H24 - Work hardened by rolling then annealed to half hard

SUPPLIED FORMS

6L16 - 1200 aluminium is supplied in 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

The specification covers sheet and strip 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.

MECHANICAL PROPERTIES

BS 6L16(1985)
Sheet

Property	Value
Proof Stress	100 Min MPa
Tensile Strength	110 Min - 140 Max MPa
Elongation A50 mm	3 Min %

The values listed above are for L16 sheet in H14 or H24 condition

[1 OF 2] CONTINUED

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REVISION HISTORY

Datasheet Updated 07 January 2014

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