Aluminium Alloy
L157 T6 Sheet

SPECIFICATIONS

Commercial	2014A

Aluminium alloy L157 – 2014A is a high strength sheet and strip specification.
The standard specifying this grade has been superseded by BSEN 2395

CHEMICAL COMPOSITION

BS L157(1978)
Alloy L157

Element	% Present
Copper (Cu)	3.9 - 5
Manganese (Mn)	0.4 - 1.2
Silicon (Si)	0.5 - 0.9
Magnesium (Mg)	0.2 - 0.8
Iron (Fe)	0.5 max
Zinc (Zn)	0.25 max
Titanium + Zirconium (Ti+Zr)	0.2 max
Titanium (Ti)	0.15 max
Others (Total)	0.15 max
Chromium (Cr)	0.1 max
Nickel (Ni)	0.1 max
Other (Each)	0.05 max
Aluminium (Al)	Balance

ALLOY DESIGNATIONS

Aluminium alloy L157 has similarities to the following standard designations and specifications: 2014A

TEMPER TYPES

The most common temper for L157 aluminium is:
- T6 - Solution heat treated and artificially aged

SUPPLIED FORMS

L157 aluminium is supplied as Clad Sheet and Strip.
- Sheet
- Strip

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.80 g/cm³
Melting Point	640 °C
Thermal Expansion	22.8 x10^{-6} /K
Modulus of Elasticity	73 GPa
Thermal Conductivity	155 W/m.K
Electrical Resistivity	40 % IACS

MECHANICAL PROPERTIES

Thickness (mm)	Proof Strength (Min)	Tensile Strength (Min)	Elongation % (Min)
Over 0.4 up to & incl. 0.8	370	430	6
Over 0.8 up to & incl.1.6	380	440	7
Over 1.6 up to & incl. 6.0	390	440	7

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REVISION HISTORY

Datasheet Updated	07 January 2014

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