

# Aluminium Alloy L159 T6 Sheet

## SPECIFICATIONS

Commercial	2014A
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Aluminium alloy L159 – 2014A is a high strength sheet and strip specification.

The standard specifying this grade has been superseded by BSEN 2395

## CHEMICAL COMPOSITION

BS L159(1978) Alloy L159	
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
Other (Each)	0.05 max
Aluminium (Al)	Balance

## ALLOY DESIGNATIONS

Aluminium alloy L159 has similarities to the following standard designations and specifications **but may not be a direct equivalent:**

2014A

## TEMPER TYPES

The most common temper for L159 aluminium is:

- T6 - Solution heat treated and artificially aged

## SUPPLIED FORMS

L159 aluminium is supplied as Clad Sheet and Strip.

- Sheet
- Strip

## GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.80 g/cm <sup>3</sup>
Melting Point	640 °C
Thermal Expansion	22.8 x10 <sup>-6</sup> /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

## CONTACT

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## REVISION HISTORY

Datasheet Updated	09 January 2014
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