

Aluminium alloy L165 / L167 – 2014A is a specification for sheet and strip clad with alloy 1050A.

**Chemical Composition**

Element	% Present
Si	0.5-0.9
Fe	0.5 Max
Cu	3.9-5.0
Mn	0.4-1.2
Cr	0.1
Mg	0.2-0.8
Zn	0.25 Max
Ni	0.2 Max
Ti & Zr	0.2 Max
Al	Balance

**Alloy Designations**

Aluminium alloy L165/L167 - 2014A has similarities to the following standard designations and specifications:

2014                      AMS 4121

**Physical Properties**

Property	Value
Density	2.80 g/cm <sup>3</sup>
Melting Point	640 °C
Modulus of Elasticity	73 GPa
Electrical Resistivity	40% IACS
Thermal Conductivity	155 W/m.K
Thermal Expansion	22.8 x10 <sup>-6</sup> /K

**Mechanical Properties**

Temper	T6
Proof Stress 0.2% (MPa)	425
Tensile Strength (MPa)	485
Shear Strength (MPa)	290
Elongation A5 (%)	12
Hardness Vickers (HV)	150

**Temper**

The most common temper for L165 / L167 – 2014A aluminium is:

- ◆ T6 – Solution heat treated and artificially aged

**Supplied Forms**

L165 / L167 – 2014A aluminium is supplied as Sheet and Strip clad with Alloy 1050A. ■

*This Data is indicative only and must not be seen as a substitute for the full specification from which it is drawn.*

*In particular, the mechanical property requirements vary widely with temper, product and product dimensions.*

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