Aluminium Alloy
L165 L167 T6 Sheet

SPECIFICATIONS

Commercial	2014A Clad 1050A

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

CHEMICAL COMPOSITION

BS L165(1978)
Alloy L165 / L167

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
Others (Total)	0.15 max
Titanium (Ti)	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 L165/L167 - 2014A has similarities to the following standard designations and specifications **but may not be a direct equivalent**:
2104, AMS 4121

TEMPER TYPES

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.
- 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	350	415	7
Over 0.8 up to & incl. 1.6	350	420	8
Over 1.6 up to & incl. 6.0	370	420	9

[1 OF 2] CONTINUED

CONTACT

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

REVISION HISTORY

Datasheet Updated	09 January 2014

DISCLAIMER

This Data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

Please note that the 'Datasheet Update' date shown above is no guarantee of accuracy or whether the datasheet is up to date.

The information provided in this datasheet has been drawn from various recognised sources, including EN Standards, recognised industry references (printed & online) and manufacturers' data. No guarantee is given that the information is from the latest issue of those sources or about the accuracy of those sources.

Material supplied by the Company may vary significantly from this data, but will conform to all relevant and applicable standards.

As the products detailed may be used for a wide variety of purposes and as the Company has no control over their use; the Company specifically excludes all conditions or warranties expressed or implied by statute or otherwise as to dimensions, properties and/or fitness for any particular purpose, whether expressed or implied.

Advice given by the Company to any third party is given for that party's assistance only and without liability on the part of the Company. All transactions are subject to the Company's current Conditions of Sale. The extent of the Company's liabilities to any customer is clearly set out in those Conditions; a copy of which is available on request.