

SPECIFICATIONS

Commercial	2014A Clad 1050A
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Aluminium alloy L164 / L166 – 2014A is a specification for close tolerance sheet and strip clad with alloy 1050A

CHEMICAL COMPOSITION

BS L164(1978) Alloy L164 / L166	
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 L164 / L166 - 2014A has similarities to the following standard designations and specifications **but may not be a direct equivalent:**
 2014, AMS 4121

TEMPER TYPES

The most common temper for L164 / L166 – 2014A aluminium is:

- T4 - Solution heat treated and naturally aged to a substantially stable condition

SUPPLIED FORMS

L164 / L166 – 2014A aluminium is supplied as Sheet and Strip clad with Alloy 1050A

- Sheet
- Strip

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.80 g/cm ³
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. 1.6	240	385	14
Over 1.6 up to & incl. 6.0	245	390	14

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REVISION HISTORY

Datasheet Updated	09 January 2014
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