

Aluminium alloy L164 / L166 – 2014A is a specification for close tolerance sheet and strip coated 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 Max
Mg	0.2-0.8
Zn	0.25 Max
Ni	0.1 Max
Ti & Zr	0.2 Max
Tl	0.15 Max
Al	Balance

Alloy Designations

Aluminium alloy L164 / L166 - 2014A has similarities to the following standard designations and specifications:

2014 AMS 4121

Physical Properties

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

Mechanical Properties

Temper	Min
Proof Stress 0.2% (MPa)	240
Tensile Strength (MPa)	385
Shear Strength (MPa)	260 Typ
Elongation A5 (%)	14
Hardness Vickers (HV)	120 Typ

Temper

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

- ◆ T4 – Solution heat treated and naturally aged

Supplied Forms

L164 / L166 – 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.

The information is based on our present knowledge and is given in good faith. However, no liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon

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