



Aluminium Alloy - L163 T3 Sheet

SPECIFICATIONS

Commercial	2014A Clad 1050A
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Aluminium alloy L163 – 2014A is supplied in sheet and strip form, generally clad with alloy 1050A.

CHEMICAL COMPOSITION

BS L163(1978) Alloy L163	
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 L163 - 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 L163 – 2014A aluminium is:

- T3 - Solution heat treated, cold worked and naturally aged

SUPPLIED FORMS

L163-2014A aluminium is supplied in 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)m	Elongation % (Min)
Over 0.4 up to & incl. 0.8	245	385	13
Over 0.8 up to & incl. 1.6	245	385	14
Over 1.6 up to & incl. 6.0	250	390	14



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CONTACT

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REVISION HISTORY

Datasheet Updated	09 January 2014
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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.

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