

Aluminium Alloy L158 T4 Sheet

SPECIFICATIONS

Commercial	2014A
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Aluminium alloy L158 – 2014A is a medium strength sheet and strip specification.

CHEMICAL COMPOSITION

BS L158(1978) Alloy L158	
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 L158 has similarities to the following standard designations and specifications **but may not be a direct equivalent:**

2014A

TEMPER TYPES

The most common tempers for L158 aluminium are as rolled and:

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

SUPPLIED FORMS

L158 aluminium is supplied as Clad Sheet and Strip.

- 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

BS L158(1978) Sheet	
Property	Value
Proof Stress	255 Min MPa
Tensile Strength	400 Min MPa
Elongation A50 mm	14 Min %

CONTACT

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REVISION HISTORY

Datasheet Updated	07 January 2014
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