



## 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 <sup>3</sup>
Melting Point	640 °C
Thermal Expansion	22.8 x10 <sup>-6</sup> /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 %



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### CONTACT

Address:	Wilsons Ltd Nordic House Old Great North Road Huntingdon PE28 5XN
Tel:	+44 (0)1480 456421
Email:	<a href="mailto:sales@wilsonsmetals.com">sales@wilsonsmetals.com</a>
Web:	<a href="http://www.wilsonsmetals.com">www.wilsonsmetals.com</a>

### REVISION HISTORY

Datasheet Updated	07 January 2014
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