

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

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	0.15 Max
Ti & Zr	0.2 Max
Al	Balance

Alloy Designations

Aluminium alloy L158 has similarities to the following standard designations and specifications: 2014A

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)	255
Tensile Strength (MPa)	400
Shear Strength (MPa)	260 Typ
Elongation A5 (%)	14
Hardness Vickers (HV)	120 Typ

Temper

The most common tempers for L158 aluminium is:

- ◆ T4 - Solution heat treated and naturally or artificially aged
- ◆ As Rolled

Supplied Forms

L158 aluminium is supplied as Clad Sheet and Strip. ■

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.

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