

Aluminium alloy L61 - 3103 is supplied as soft (Temper O) sheet and strip, generally in the thickness range 0.4mm to 0.8mm, with a good elongation (20% minimum).

Chemical Composition

Element	% Present
Si	0.5 Max
Fe	0.7 Max
Cu	0.1 Max
Mn	0.9-1.5
Cr	0.1 Max
Mg	0.06-1.2
Zn	0.2 Max
Ti & Zr	0.1 Max
Al	Balance

Alloy Designations

Aluminium alloy L59 has similarities to the following standard designations and specifications: 3103

Physical Properties

Property	Value
Density	2.73 g/cm ³
Melting Point	655 °C
Modulus of Elasticity	69.5 GPa
Electrical Conductivity	42% IACS
Thermal Conductivity	160 W/m.K
Thermal Expansion	23.1 x10 ⁻⁶ /K

Mechanical Properties

Temper	O
Proof Stress 0.2% (MPa)	
Tensile Strength (MPa)	90-130
Shear Strength (MPa)	
Elongation A5 (%)	20 Min
Hardness Vickers (HV)	

Temper

The most common temper for L61 aluminium is:

- ◆ O – Soft

Supplied Forms

L61 aluminium is supplied as soft 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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