

Aluminium alloy L59 – 3103 – H16 / H26 is a low strength alloy supplied in sheet and strip form.

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	0.3 Max
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 Resistivity	42% IACS
Thermal Conductivity	160 W/m.K
Thermal Expansion	23.1 x10 ⁻⁶ /K

Mechanical Properties

Temper	H16/H26
Proof Stress 0.2% (MPa)	160-190
Tensile Strength (MPa)	
Shear Strength (MPa)	
Elongation A5 (%)	2 Min
Hardness Vickers (HV)	

Temper

The most common temper for L59 aluminium is:

- ◆ H16 – Cold Rolled or
- ◆ H26 – Cold Rolled and Partially Annealed

Supplied Forms

L164 / L166 – 2014A aluminium is supplied as 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.

The information is based on our present knowledge and is given in good faith. However, 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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