

Aluminium Alloy L157 – 2014A

AMARI AEROSPACE

Aluminium alloy L157 – 2014A is a high strength sheet and strip specification.

The standard specifying this grade has been superseded by BSEN 2395

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 L157 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)	370
Tensile Strength (MPa)	430
Shear Strength (MPa)	
Elongation A5 (%)	6
Hardness Vickers (HV)	

Temper

The most common temper for L157 aluminium is:

- ◆ T6 – Solution heat treated, water quenched and artificially aged

Supplied Forms

L157 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.

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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