

L168 T6511

## Additional Information

Aluminium alloy BS L168 - 2014A has similarities to the following standard designations and specifications but may not be a direct equivalent:

2014, AMS4121

## Chemical Properties

Element	Chemical Composition %
Copper (Cu)	3.90 - 5.00
Manganese (Mn)	0.40 - 1.20
Silicon (Si)	0.50 - 0.90
Magnesium (Mg)	0.20 - 0.80
Iron (Fe)	0.0 - 0.50
Zinc (Zn)	0.0 - 0.25
Titanium + Zirconium (Ti + Zr)	0.0 - 0.25
Titanium (Ti)	0.0 - 0.15
Others (Total)	0.0 - 0.10
Chromium (Cr)	0.0 - 0.10
Nickel (Ni)	0.0 - 0.10
Other (Each)	0.0 - 0.05
Aluminium (Al)	Balance

## Mechanical Properties

Diameter	Proof Strength (Min)	Tensile Strength (Min)	Elongation % (Min)
Up to & incl. 2.5	370	415	6
Over 2.5 up to and incl. 25	385	435	6
Over 10 up to and incl. 25	415	460	7
Over 25 up to and incl. 75	440	490	7
Over 75 up to and incl. 100	435	480	7
Over 100 up to and incl. 150	420	465	7
Over 150 up to and incl. 200	390	435	7

## Physical Properties

Property	Value
Density	2.80
Melting Point	640 °C
Thermal Expansion	22.8 x 10 <sup>-6</sup> / K
Modulus of Elasticity	73 GPa
Thermal Conductivity	155 W/m.K
Electrical Resistivity	40% IACS

## Disclaimer

This data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. 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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