

SPECIFICATIONS

Commercial

2014A Clad 1050A

Aluminium alloy L163 – 2014A is supplied in sheet and strip form, generally clad with alloy 1050A.

CHEMICAL COMPOSITION

| BS L163(1978) Alloy L163 | | | | |
|---------------------------------|-----------|--|--|--|
| Element | % Present | | | |
| Copper (Cu) | 3.9 - 5 | | | |
| Manganese (Mn) | 0.4 - 1.2 | | | |
| Silicon (Si) | 0.5 - 0.9 | | | |
| Magnesium (Mg) | 0.2 - 0.8 | | | |
| Iron (Fe) | 0.5 max | | | |
| Zinc (Zn) | 0.25 max | | | |
| Titanium + Zirconium (Ti+Zr) | 0.2 max | | | |
| Others (Total) | 0.15 max | | | |
| Titanium (Ti) | 0.15 max | | | |
| Chromium (Cr) | 0.1 max | | | |
| Nickel (Ni) | 0.1 max | | | |
| Other (Each) | 0.05 max | | | |
| Aluminium (Al) | Balance | | | |

ALLOY DESIGNATIONS

Aluminium alloy L163 - 2014A has similarities to the following standard designations and specifications **but may not be a direct equivalent:** 2014, AMS 4121

TEMPER TYPES

The most common temper for L163 – 2014A aluminium is:

• T3 - Solution heat treated, cold worked and naturally aged

SUPPLIED FORMS

L163-2014A aluminium is supplied in Sheet and Strip clad with alloy 1050A.

- Sheet
- Strip

GENERIC PHYSICAL PROPERTIES

| Property Value | | |
|------------------------|---------------------------|--|
| Density | 2.80 g/cm ³ | |
| Melting Point | 640 °C | |
| Thermal Expansion | 22.8 x10 ⁻⁶ /K | |
| Modulus of Elasticity | 73 GPa | |
| Thermal Conductivity | 155 W/m.K | |
| Electrical Resistivity | 40 % IACS | |

MECHANICAL PROPERTIES

| Thickness (mm) | Proof Strength (Min) | Tensile Strength (Min)m | Elongation % (Min) |
|----------------------------------|----------------------------|-------------------------------|-----------------------|
| Over 0.4 up to & incl. 0.8 | 245 | 385 | 13 |
| Over 0.8 up to & incl. 1.6 | 245 | 385 | 14 |
| Over 1.6 up to & incl. 6.0 | 250 | 390 | 14 |



CONTACT

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REVISION HISTORY

Datasheet Updated 09 January 2014

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