

### SPECIFICATIONS

Commercial	1200 - Obsolete
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#### Applications:

Metal work, license plates, identification plates. Kitchenware, packaging foils, containers, automotive trim, heat exchanger strip, radiator tubes. Aircraft and military highly stressed structures.

#### Characteristic Properties:

Very good atmospheric corrosion resistance and workability. High thermal conductivity and reflectivity but lower than for 1050A. Very good weldability. Slightly higher strength than 1050A.

### CHEMICAL COMPOSITION

BS 5L34(1985) Alloy L34	
Element	% Present
Aluminium (Al)	99 min
Silicon + Iron (Si+Fe)	1 max
Others (Total)	0.15 max
Zinc (Zn)	0.1 max
Titanium (Ti)	0.05 max
Manganese (Mn)	0.05 max
Copper (Cu)	0.05 max
Other (Each)	0.05 max

Cast billets & slabs for hot working and extruded bars, sections and hot-rolled plate for forging shall be supplied non-heat treated.

Bars for machining & extruded sections shall be supplied in one of the following conditions:

Extruded;  
Extruded & Drawn;  
Rolled & Drawn

and subsequently straightened.

Forgings, unless otherwise agreed in accordance with BS L100, shall be supplied as forged or annealed.

No heat treatment is required.

### ALLOY DESIGNATIONS

Aluminium alloy 5L34 - 1200 is covered by Standard BS EN 5L34 (1985) - Now Obsolete.

### TEMPER TYPES

The most common tempers for 5L34 - 1200 aluminium are as forged 'F' or fully annealed 'O'

- F - As fabricated
- O - Soft

### SUPPLIED FORMS

5L34-1200 aluminium is supplied as forging stock and forgings made from cast billet, extruded stock or rolled plate

- Bar
- Extrusions
- Forgings
- Plate
- Castings

### GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.59 g/cm <sup>3</sup>
Melting Point	657 °C
Thermal Expansion	23.4 x10 <sup>-6</sup> /K
Modulus of Elasticity	69 GPa
Thermal Conductivity	225 W/m.K
Electrical Resistivity	58.5 % IACS

### MECHANICAL PROPERTIES

BS 5L34(1985)	
Property	Value
Tensile Strength	65 Min MPa
Elongation A50 mm	18 Min %

The specification covers forging stock, bars, extruded sections and forgings of 99% aluminium.

This specification was declared obsolescent on 01 April 1999. It is no longer recommended for use on new designs.

## CONTACT

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## REVISION HISTORY

Datasheet Updated	07 January 2014
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