

Grade 1200 has been largely replaced by the 1050 grade of aluminium. The 1200 has a 99.0% minimum requirement for aluminium content but is still classed as a non-heat treatable commercially pure Aluminium. The mechanical, physical and fabrication properties of the materials are very similar, with the only real noticeable difference being the 1200 has a slightly higher strength but a lower conductivity value.

Therefore please also refer to the data sheet of 1050 for specific information regarding the processing and application areas for this material ([click here for 1050 data sheet](#))

### Chemical Composition

Aluminium	99.0% min	Manganese	0.05% max
Iron + Silicon	1.00% max	Copper	0.05% max
Magnesium	0.05% max	Zinc	0.10% max
Titanium	0.05% max	Other Total	0.15% max

### Related Specifications

6L16, Alloy 1200	6L17, Alloy 1200
5L34, Alloy 1200	4L54, Alloy 1200
L116, Alloy 1200	BS 1C
BA 99.0%	Grade 1200

### Key Features

- Very Good Cold Forming Properties
- High Anodising Capability
- Easily Joined
- High corrosion resistance

### Typical Physical Properties

Melting Point	660°C
Density	2.71 g/cm <sup>3</sup>
Thermal conductivity	226 W/m <sup>2</sup> K
Thermal expansion coefficient	24 x 10 <sup>-6</sup>
Electrical Conductivity	59.5 IACS
Electrical resistivity	0.029 microhm m
Modulus of elasticity	69 GPa

### Fabrication Properties

Cold Formability	Excellent
Machinability	Poor
Soldering / Brazing	Excellent
Oxy-acetylene welding	Excellent

**Typical Applications**

General fabrication and sheet metal work, kitchenware, heat transfer components, boiler making, chemical and pharmaceutical process plant equipment, food industry vessels and containers, architectural flashings, lamp reflectors, cable sheathing and panelling.

This technical information is given by Holme Dodsworth Metals without charge and the user shall employ such information at their own discretion and risk. For more detailed technical advice on temper selection, fabrication, joining, machining, physical and mechanical data please contact us as space does not permit the listing of every feature of the material.