

# 1200 Aluminium

## Technical Datasheet



Service. Quality. Value.

### Commercial Aluminium Alloy

#### Applications

- General fabrication
- Processing equipment (chemical, pharmaceutical)
- Sheet metal work
- Boiler fabrication
- Industrial pressure vessels (food sector)
- Kitchenware

#### Key features:

- High thermal conductivity
- Very good weldability
- Very good atmospheric corrosion resistance
- Easily joined
- High anodising capability

#### Product Description

Commercial aluminium alloy grade 1200 has high corrosion resistance with slightly higher strength than 1050a. The alloy also boasts high thermal conductivity and reflectivity although this is not quite as high as 1050. The alloy has a 99% minimum requirement for aluminium content and yet is still classed as a non-heat treatable commercially pure aluminium. Grade 1200 has been largely replaced by grade 1050a.

#### Related Material Specifications

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

#### Corrosion Resistance

High

#### Cold Working

Excellent

#### Availability

Sheet

#### Chemical Composition (weight %)

Weight (%)	Al	Fe + Si	Mg	Ti	Mg	Cu	Zn	Other
min.	99.0							
max.		1.0	0.05	0.05	0.05	0.05	0.10	0.15

#### 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 x10 <sup>-6</sup> /K
Electrical Conductivity	59.5 IACS
Modulus of elasticity	69 GPa

#### Technical Assistance

Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.

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