1200 Aluminium

Technical Datasheet

Commercial Aluminium Alloy

Service. Quality. Value.

Applications

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

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.

Key features:

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

Related Material Specifications

- 6L16, Alloy 1200
- 5L34, Alloy 1200
- 6L17, Alloy 12004L54, Alloy 1200
- L116, Alloy 1200
- BS 1C
- BA 99.0%
- 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 ³
Thermal conductivity	226 W/m°K
Thermal expansion coefficient	24 x10 ⁻⁶ /K
Electrical Conductivity	59.5 IACS
Modulus of elasticity	69 GPa
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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.

0113 307 5167

UK Service Centres:

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Quality & Testing:





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