# 1200 Aluminium Sheet

Smiths Advanced Metals

Rev: SAM/datasheets/aluminium/1200-sheet/feb-2022

## Superior Corrosion Resistance

Low strength aluminium sheet

1200 aluminium sheet is a low strength alloy although it offers slightly higher strength when compared to 1050A.

The alloy offers very good corrosion resistance, particularly to chemical and atmospheric attack. Weldability is also very good and slightly higher than 1050A. Other attractive characteristics include good workability, high thermal conductivity, and reflectivity.

We guillotine your aluminium sheets in-house to tight tolerances and also provide a vinyl coating service to protect your sheets from aesthetic damage.

We offer 1200 aluminium sheets from stock in a broad range of thicknesses and tempers, including H14, H24 and O.



Chemical Composition (weight %)											
	Si Fe	Cu	Mn	Zn	Ti	Others (ea)	Others (total)	AI			
min.								Rem			
max.	1.00 Si + Fe	0.05	0.05	0.10	0.05	0.05	0.15				

Mechanical Properties (minimum values unless stated)											
Temper	MPa <sub>Rm</sub>	MPa R <sub>p0,2</sub>	Elongation A50mm(%)	Hardness HBW Typical							
0	75 min - 105 max	25	24	23							
H14	115min - 155 max	95	4	37							
H24	115min - 155 max	90	5	37							

Properties as per BS EN 755-2, 1.5-3mm

#### Grades / Specifications

- BS L16
- BS EN 573, BS EN 485
- BS L17
- BS L100

### **Technical Support**

Our dedicated sales team and UKAS Accredited Testing Laboratory provide unrivalled levels of after-sales and technical support, including a range of tests such as charpy, tensile and physical properties testing.

#### **Key Applications**

**Physical Properties** 

Temper

Density (g/cm<sup>3</sup>)

Melting Range (°C)

- Aerospace components
- Food Industry components

Electrical Conductivity (20°C, % IACS)

Modulus of Elasticity (x10<sup>3</sup>, N/mm<sup>2</sup>)

Thermal Conductivity (% IACS)

General fabrication

#### Benefits

- Excellent corrosion resistance
- Non-heat treatable commercial pure aluminium
- High anodising capability



All information in our data sheet is based on approximate testing and is stated to the best of our knowledge and belief. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of trading.



0

2.71

645 -657

58.5

574

69

Page: 1 of 1