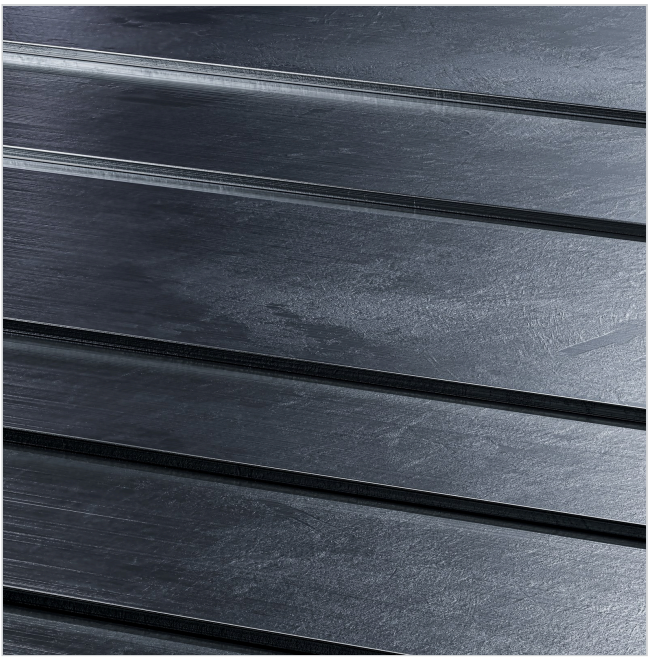
6082 Aluminium Sheet

Smiths Advanced Metals

Strength & Formability

6082 heat-treatable aluminium sheet.



6082 aluminium sheet to BS L113 is solution heat-treated and artificially aged to the T6 condition, offering medium strength with good resistance to atmospheric attack.

The material offers generally good weldability and formability. Where greater forming, drawing or spinning is required, it is also available in the annealed (O) and solution heat-treated (T4) conditions.

The product finds typical use in defence and high technology applications, and in aerospace components such as shelves, trays and filters.

In T6, sheet up to 3.0 mm has a minimum tensile strength of 295 MPa and a minimum 0.2% proof stress of 255 MPa.

We stock 6082 aluminium sheets from 0.2 mm to 6.0 mm thick in T6, T4 and O tempers.

Key Applications

- **Aerospace shelves & trays**
- **Filters**
- **Defence components**
- **High technology applications**
- **General engineering**

Benefits

- **Medium strength in the T6 condition**
- **Good weldability & formability**
- **Good resistance to atmospheric attack**

Grades / Specifications

- **BS L113**
- **EN AW-6082 (AlSi1MgMn)**
- **BS EN 485 / 515 / 573**

* Chemical Composition (weight %)

	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Pb	Sn	Al
min.	0.70			0.40	0.50							Rem
max.	1.30	0.50	0.10	1.00	1.20	0.25	0.10	0.20	0.20	0.05	0.05	

* As per BS L113

Metallurgical Support

Our UKAS Accredited Testing Laboratory is unique to the UK stockholding sector, and we provide comprehensive metallurgical support, including an extensive range of testing services.

Processing

We supply products in both metric and imperial sizes and process your aluminium sheet in-house. We stock materials in closer incremental sizes, which results in the supply of engineering materials where the need to machine the raw material down is not required.

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ISO 9001 Quality Management Systems CERTIFIED
AS/EN 9100 Aviation Space and Defence CERTIFIED
EN 9120 Aviation Space and Defence CERTIFIED

UKAS TESTING 1930

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.

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