

5052 Aluminium Sheet

Smiths Advanced Metals

Low Density Aluminium Sheet

Aluminium sheet with excellent weldability

5052 aluminium sheet is a medium strength product with medium to high fatigue strength. The alloy offers slightly better strength than 5251.

Excellent corrosion resistance is a major feature of 5052 aluminium sheets, particularly in marine and industrial environments. The product is not heat-treatable but may be hardened by cold working. The alloy is one of the best welding aluminiums available and is ideal for welding applications in various market sectors aerospace and general sheet metalwork.

We have stock availability of [5052 aluminium sheets](#) in a wide range of thicknesses and tempers such as H32, H34 and O.



Grades / Specifications

- AMS4016
- AMS4017
- AMSQA250/8
- ASTM B209
- BS EN 573, BS EN 485

Key Applications

- Marine components
- Road signs
- Chemical equipment
- Heat exchangers

Chemical Composition (weight %)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Others (ea)	Others (total)	Al
min.					2.20	0.15				Rem
max.	0.25	0.40	0.10	0.10	2.80	0.35	0.10	0.05	0.15	

Other Characteristics

With a relatively low magnesium content of 2.2 - 2.8%, the alloy does not suffer from stress corrosion cracking (SCC) when compared to other aluminium alloys, where magnesium content is greater than 3.5%.

5052 is a low-density alloy that displays excellent thermal conductivity. With a pleasing aesthetic appearance and smooth surface, 5052 aluminium sheet also finds use in decorative and architectural applications.

The alloy is particularly suitable for use in marine structures and vessels due to the material's excellent corrosion resistance.

