

Aircraft Aluminum Sheets

The **aircraft aluminum sheets** supplied by Haomei Aluminium are continuously rolled or cold-formed. The hardness and straightness of the product are far better than other ceiling products of the same type. The surface roller coating is uniform and long-lasting, the texture is clear and realistic, and the style is unique. Strong corrosion resistance and weather resistance The product is durable. The lines are neat and tidy, and the layers are clear, reflecting the simple and clear modern style. It can be matched with a variety of different colors and different heights to create a beautiful and generous shape and a rich color space.

Specification of aircraft aluminum sheets are:

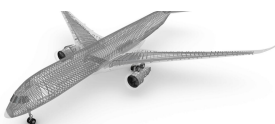
ALLOYS	SPECIFICATIONS	Size
1100	AMS-4001, 4003, QQ-A-250/1	.008 to .249 x R/W x R/L
2014-BARE	AMS-4028, 4029	.250 to 18.00 x R/W x R/L
2014-ALCLAD	QQ-A-250/3	
2024-BARE	AMS-4035,37, QQ-A-250/4	
2024-ALCLAD	AMS-4040, 41, QQ-A-250/5	
2124	AMS-4101, QQ-A-250/29	
2219	AMS-4031, 94, 95, QQ-A-250/30	
3003	AMS-4006, 4008, QQ-A-250/2	
5052	AMS-4015, 16, 17, QQ-A-250/8	
6013	AMS-4347, 4216	
6061	AMS-4025, 26, 27, QQ-A-250/11	
7050	AMS-4050, 4201, BMS-7-194	
7075-BARE	AMS-4044, 45, QQ-A-250/12	
7075-ALCLAD	AMS-4048, 49, QQ-A-250/13	
7178-BARE	QQ-A-250/14	
7178-ALCLAD	QQ-A-250/15	
7475	AMS-4084, 4085	
Other alloys available upon request * Special Tolerances Available * Polishing & PVC Protected		

Aircraft Aluminum Sheet grades:

At present, the aluminum alloy used in aircraft structure in the world is mainly high-strength 2 series (2024, 2017, 2A12, etc.) and ultra-high-strength 7 Series (7075, 7475, 7050, 7A04, etc.), in addition, there are some 5 Series (5A06, 5052, 5086, etc.) and 6 Series (6061, 6082, etc.) and a small number of other series of aluminum materials. Haomei aluminum provides you with a full range of aluminum sheet alloy products for aircraft.

2024 T3 Aluminum Sheet:

This is the most common of the the high-strength aluminum alloys. It is high grade aircraft quality. 2024-T3 aluminum sheet is thought of as the aircraft alloy because of its strength and it also has excellent fatigue resistance. Welding is generally not recommended. Typical uses for 2024-T3 Alclad aluminum sheet are fuselage



and wing skins, cowls, aircraft structures, and also for repair and restoration because of its shiny finish (2024-T3 Alclad).

3003 H14 Aluminum Sheet:

Most widely used of aluminum alloys, aluminum with manganese added for strength, approx 20% stronger than the 100 series. 3003-H14 aluminum sheet has great workability and may be deep drawn, spun, welded or brazed. 3003 aluminum sheet is NON-heat treatable. This aluminum sheet is widely used for cowls and baffle plating.

5052 H32 Aluminum Sheet:

This one has the highest strength in the NON-heatable alloy series. It is not structural. 5052 aluminum sheet has higher fatigue strength than most alloys. 5052 aluminum sheet has excellent corrosion resistance, particularly in marine applications and has excellent workability. 5052 aluminum sheet is commonly used to built fuel tanks.

5083 aluminum sheet:

5083 aluminum sheet belongs to Al-Mg-Si aluminium alloys. Its main contents are Magnesium and Silicon except Aluminium. Over 4.0% of Magnesium enables 5083 aluminum sheet to have excellent resistance to corrosion, and easily to welded. By adding copper, 5083 aluminum sheet has 28% Electrical conductivity. 5083 aluminum sheet also has good forming characteristic for either hot or cold working. But hardening is accomplished by means of cold working only. Besides, 5083 aluminum sheet does have good strength but non-heat treatable.

6061 T6 Aluminum Sheet:

This alloy has a very good corrosion resistance and finishing ability, welding goes without any problems too. The strength level of 6061-T6 aluminum sheet is about that of mild steel. 6061-T6 aluminum sheet can be fabricated by most of the commonly used techniques. Typical uses are aircraft landing mats, truck bodies and frames, structural components and more.

7075 Aluminum Sheet:

Aircraft manufacturers use high-strength alloys (principally alloy 7075) to strengthen aluminum aircraft structures. Aluminum alloy 7075 has Copper (1.6 %), Magnesium (2.5 %) and zinc (5.6 %) added for ultimate strength, but the copper content makes it very difficult to weld. On the other hand it anodizes really beautifully. 7075 has the best machinability and it will result in a very nice finish.

Advantages of Aircraft Aluminum Plate are:

The texture is clear and natural, and the color is uniform and bright;

Smooth lines, generous shape, not easy to deform;

Strong weather resistance, can keep color for 10 years indoors.

