

2017 Aluminium Sheet

Aluminum alloys have completely changed the metal business by providing corrosion-resistant, long-lasting, and lightweight solutions for a range of industrial uses. 2017 Aluminium Sheets stand out among them as a high-strength material that is frequently used in structural, automotive, marine, and aerospace engineering. Known for their exceptional performance, durability, and machinability, 2017 aluminum alloy sheets are the go-to option for businesses needing strong, lightweight materials.

We provide premium-quality sheets with industry-standard requirements at the most competitive costs if you're searching for a reliable 2017 aluminum sheet manufacturer in China. Discover why 2017 Aluminium Sheets are the best option for your needs by reading on to learn more about their characteristics, uses, and benefits.

What Are 2017 Aluminium Sheets?

The 2000 series of aluminum alloys, which are mostly copper-based alloys renowned for their exceptional machinability and high strength, includes the 2017 aluminum alloy sheets. These sheets are frequently utilized in applications needing greater fatigue resistance and thermal conductivity because of their remarkable mechanical qualities.

Key Properties of 2017 Aluminium Sheets:

- High Strength: Among the strongest aluminum alloys on the market, this one is perfect for structural uses.
- Outstanding Machinability: Easily manufactured and machined into many shapes.
- Good Corrosion Resistance: Provides a reasonable level of corrosion resistance when coated or anodized.
- Heat Treatable: For improved mechanical qualities, it can be solution heated.
- Lightweight: Perfect for the automotive and aerospace industries, it offers strength without adding extra weight.

Applications of 2017 Aluminium Sheets

2017 Aluminium Sheets are utilized in a variety of industries due to their exceptional durability and high strength-to-weight ratio.

1. The Aviation and Aerospace Sector

Because of its high tensile strength and fatigue resistance, it is utilized in aerospace fittings, structural elements, and aircraft fuselages.

Perfect for load-bearing components and the interior aircraft construction.

2. 2017 Automotive Industry Heat exchangers, engine parts, and chassis all employ sheets of aluminum alloy.

provides weight loss without sacrificing structural soundness.

3. The Marine Sector

utilized in boat hulls, ship superstructure, and marine equipment.

offers superior resistance to corrosion in marine conditions.

4. Applications in Industry and Structure

utilized in high-stress structural elements as construction frameworks, bridges, and cranes.

provides excellent resilience to mechanical stress and longevity.

5. Military and Defense Uses

widely utilized in defensive aircraft, ballistic vehicle armor, and military-grade components.

offers excellent strength and resilience to impact.

6. Heat Transfer and Electrical Systems

Because of its superior thermal conductivity, it is utilized in electrical connectors, cooling fins, and heat exchangers.

Perfect for electrical housings and power transfer.

Chemical Composition Of Aluminium Alloy 2017 Sheets & Plates :

Alloy	Weight%	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Other Total
2017	Rem	0.20-0.8	0.7	3.5-4.5	0.40-1.0	0.40-0.8	0.10	0.25	0.15	0.05	0.15

Alloy	Weight%	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Other Total
USA			max				max	max	max	max	max

Mechanical Properties Of Aluminium Alloy 2017 Sheets & Plates :

Alloy	Fe	Si	Mg	Mn	Cu	Zn	Ti	Cr	Each	AI
1100 (min)	0.35	0.25	0.01	0.01	0.05	0.01	0.020	Trace	0.05	99.60%
1100 (max)	0.50	0.35	0.03	0.05	0.20	0.05	0.030	Trace	0.15	Remainder

2017 Aluminium Sheet Material Specification

Specifications Chart	ASTM B209 / ASME SB209
Dimension Chart	ASME, ASTM, and API
Thickness Table in MM	0.2~300 Milimeter
Width in mm	500~2500 Milimeter
Length in mm	500~10000 Milimeter
Tempers	H34, H24, T4, F, T5, H14, H22, H36, H18, H19, T851 T451, H26, T3, T351, H32, H112, H16, O, T7, H321, T651, T6, H111, H12, H38,
Surface Finish	polished, Bright, hair line, sand blast, brush, checkered, etching, embossed, etc.
Forms	Foils, Coils, Rolls, Strip, Checkered Plate, Flats, Circle, Blank, Ring (Flange) etc.
Coating	Color Coated, PVC Coated, Polyester, polyurethane, Fluorocarbon, epoxy coating
Finishes	Mill, Customer specific finish

2017 Aluminium Sheet Price – Affordable & Competitive

Sheet thickness, size, surface quality, and quantity needed are just a few of the variables that affect the cost of 2017 Aluminium Sheets. We guarantee that our clients obtain premium aluminum sheets at the most competitive prices available.

Factors Affecting 2017 Aluminium Sheet Price

Size & Thickness: The price of a sheet increases with its thickness.

Quantity Purchased: Discounted prices are available for large orders.

Finishing & Coating: The cost may be impacted by additional protective coatings or anodizing.

Market Volatility: The global supply and demand for aluminum determine how much it costs. For competitive prices and large purchase discounts, get in touch with us as the top 2017 Aluminum Sheet Dealer in China.

Why Choose Us as Your 2017 Aluminium Sheet Manufacturer in China?

We provide premium 2017 Aluminium Sheets at the most affordable costs if you're looking for a trustworthy manufacturer of aluminum sheets in China. Our cutting-edge production facility guarantees that every sheet satisfies client demands and industry standards.

What Sets Us Apart?

- Superior-Grade Sheets: Crafted with accuracy and rigorous quality assurance.
- Vast Variety of Sizes & Thicknesses: Offered in various dimensions to accommodate a

range of industrial requirements.

- Bulk Order Discounts: For orders in bulk, we offer discounted prices.
- Dependable & Quick Delivery
- Customization Possible: Aluminum sheets can be tailored to meet particular needs.
- Outstanding Customer Service: For technical questions and quotes, our knowledgeable staff is available to help.

How to Choose the Right 2017 Aluminium Alloy Sheet?

2017 Aluminium Sheets are the best option if you require high-strength aluminum with superior machinability. Here's how to choose the appropriate sheet:

Examine Your Application:

Choose 2017 Aluminium Sheets if you require excellent strength and durability. Additional coatings could be needed for corrosion resistance in marine applications.

Select the Proper Size and Thickness:

Thin sheets (0.5–2 mm) are perfect for parts used in automobiles and airplanes.

The ideal thickness for industrial and structural applications is between 3 and 10 mm.

It is advised to use thicker sheets (10mm+) for high-load applications like construction and defense.

Surface Finish Specifications:

Mill Finish: A common industrial finish.

Anodized Finish: Offers additional defense against wear and corrosion.

A powder-coated finish improves durability and visual appeal.

Frequently Asked Questions

What are the standard tempers and fabrication methods?

Available in T3, T4, T6, and T451 (artificially aged and solution-treated). Excellent machinability, especially in T4, is demonstrated. Annealed conditions have the finest formability. Resistance and inert gas welding are feasible (arc welding is not advised because of the possibility of cracking); rivets are frequently utilized.

Where are 2017 sheets typically used?

Aerospace structures, rivets, and fasteners

Aircraft and military equipment

High-strength structural and machined components

Truck wheels, propellers, and precision instruments

What sheet thicknesses and tempers does GNEE offer?

GNEE provides sheets (including chequered/plate) in various thicknesses and finishes, typically in tempers T3–T6, meeting ASTM B209, EN 485-2, AMS, and UNS A92017 standards