



Alro Steel

Aluminum - Alloys - Carbon Steel - Stainless - Red Metals



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Aluminum Plate



Aluminum is corrosion resistant and virtually maintenance-free metal plate product. Aluminum plate has an unbeatable strength-to-weight ratio compared to other metals and weighs roughly 1/3 as much as iron, steel, copper, or brass. Aluminum components maintain better heat conductivity than any other common metal while having electrical conductivity comparable to copper products.

Aluminum Plate Industrial Applications

Aluminum is non-toxic and can be used in food preparation equipment. It is non-combustible (does not burn) and has a reflective nature, making it suitable for light fixtures. Industries that utilize aluminum metal plate include:

- Transportation
- Food packaging
- Furniture
- Electrical
- Construction
- Machinery

It is interesting to note that aluminum is the most abundant metal element in Earth's crust and makes up about 8% by weight.

Aluminum Plate Grade Options

As a premium aluminum plate supplier, Alro provides an extensive selection of top-quality aluminum plate alloy options to suit your project specifications. Alro provides the following aluminum plate alloy products.

2024 Aluminum Plate

2024 aluminum plate is the most widely used aerospace alloy. It has a high yield strength, good fatigue resistance, good machinability, and grain structure. Applications for 2024 aluminum plate include:

- Precision fittings and parts
- Aircraft fittings
- Computer parts
- Bolts

3003 Aluminum Plate

3003 aluminum is the most widely used aluminum alloy. It has excellent workability and corrosion resistance and reacts well to finishing such as laminating or anodizing. It is a non-heat treatable metal. Typical 3003 aluminum plate applications include:

- Pressure vessels
- Garage doors
- Builder's hardware

5052 Aluminum Plate

5052 aluminum is an alloy similar to 3003 aluminum but has better corrosion resistance and strength. Applications for 5052 plate aluminum alloys include:

- Cooking utensils
- Mailboxes
- Railings

6061 Aluminum Plate

6061 aluminum plate is the most versatile and widely used of heat treat grades. It has excellent machinability, weldability, and medium strength. (It is less robust when compared to aluminum 2024 and 7075). 6061 aluminum has superior welding and brazing abilities due to its high corrosion resistance at all temperatures. 6061 plate aluminum alloy applications include:

- Pipe fittings
- Bridge components

7075 Aluminum Plate

7075 aluminum is the highest strength aluminum plate that Alro stocks; it has a strength comparable to many steel alloys. This aluminum grade is relatively expensive, so it is typically used when cheaper alloys aren't suitable. 7075 aluminum plate applications include:

- Aircraft fittings
- Missile parts
- Bike frames

Alumold

Alumold aluminum plate is a unique aluminum mold plate that has been successfully substituted for P-20 steel in many mold applications. It has better thermal conductivity, dimensional stability and consistent through-thickness hardness qualities. Alumold is most used for:

- Thermoplastic injection molds

Cast Mold Plate

Cast Mold Plate is a cast aluminum mold product characterized by excellent dimensional stability. Alro stocks both 2000 series cast mold plate and 5000 series cast mold plate primarily used for:

- Mold making applications

Cast Aluminum for Tool and Jig Plate

Alro stocks several different brands of Cast Aluminum Tool & Jig Plate. This material is produced from a fine-grain aluminum alloy which is free from internal stresses. Cast aluminum for tool and jig plate applications include:

- Assembly jigs and fixtures
- Rubber and plastic molds
- Prototypes

Order Aluminum Plate Alloy Metals from Alro Today

Alro is your trusted supplier of premium grades of aluminum alloy plate. Request a quote or contact us at 888-888-2576 to learn more. You can also [order your metals online](#) with convenient next-day delivery. Alro's network of outlet centers spans 75 locations and 15 states, making it easy to find a metals supplier near you.

Grade	Buy PLATE
2024	●
3003	●
5052	●
5083	●
6061	●
7075	●
Alumold	●
Cast Mold	●
Cast Tool and Jig	●

Metals Products


- Alloy
- Aluminum
- Aluminum Plate
- Brass
- Bronze
- Copper
- Cast Iron
- Stainless Steel
- Tool Steel
- Expanded Metal
- Grating
- Carbon Steel
- Carbon Steel Bars
- Carbon Steel Plate
- Carbon Steel Sheet
- Carbon CF Bars
- Structurals
- Steel Tubing
- Carbon Steel Pipe
- Carbon Rebar
- Threaded Rod
- Chrome Plated Bar

Metals Processing

- Flame Cutting
- Grinding
- Plasma Cutting
- Plate Laser Cutting
- Precision Plate Sawing
- Precision Milled Super Square
- Press Brake/Forming
- Thermal Processing
- Tube Cutting & Chamfering
- Tube Laser Cutting
- Saw Cutting
- Shearing
- Waterjet Cutting

Metals Resources

- Metals Products
- Metals Literature
- Request a Quote/Submit a Print
- Quality System
- MSDS/SDS
- Metals Links

 **WARNING:** These products can potentially expose you to chemicals including Nickel, Chromium, Lead, Cobalt, Mercury and Beryllium, which are known to the state of California to cause cancer and/or birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov