





# **About Us**

We are the authorized representative of Aluphoenix, an Italy-based company which is manufacturer of primary aluminum high grade alloy ingots. We supply the aluminum alloy ingot products to according your preferred chemical composition.

In addition, our Bulgarian manufacturer StamTrade works specifically on the production of 100% Secondary Aluminum Alloys and also assists with scrap supply.

We also have an aluminum scrap supply chain with our professional business partners in Turkey.









1000 Series Aluminum Alloys are referred to as pure and unalloyed, with a minimum Aluminum content of 99%.

As a pure material, aluminum is ductile and easy to shape. It is also a good conductor of electricity and heat.

It is frequently used in the electrical industry, aviation, food packaging and foils.

The main alloying element of 2000 Series Aluminum Alloys is copper. While copper has a significant effect on increasing the strength of aluminum, the additions of magnesium, manganese and silicon allow the alloy to be subjected to further heat treatment.

The corrosion resistance of 2000 series alloys is a specific problem. To solve this problem, composite sandwiches are created by coating the alloys with corrosion-resistant materials.

Ideal for aviation and automotive industries due to their high strength.











3000 Series Aluminum Alloys contain Manganese as the main alloying element. A 20% increase in strength is seen while maintaining the basic properties of 1000 Series alloys.

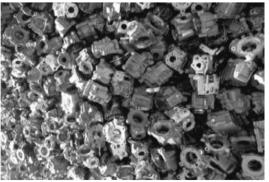
3000 series alloys are widely used in the construction industry, roof structures and exterior cladding, thanks to their corrosion resistance. It is also frequently used in many other industries, especially energy and automotive, in the production of kitchen products and beverage cans.

4000 Series Aluminum Alloys contain Silicon as the main alloying element. Strength value increases depending on the silicon content it contains.

These alloys have good mechanical strength and corrosion resistance. They can be well machined and welded well.

4000 series alloys are frequently used in the automotive industry, especially pistons, engine components and chassis components. It is also used to create solder plates and welding rods.









5000 Series Aluminum Alloys contain Magnesium as the main alloying element. It has the highest strength among alloys that are not heat treated.

It is similar to 3000 series alloys and has higher strength and improved corrosion resistance. Offers the strongest weld strength.

It is used in many industries for general purposes. Marine, construction, automotive and energy are the leading industries.

The two main elements of 6000 Series Aluminum Alloys are Magnesium and Silicon. These two elements allow the alloy to be heat treated to increase its strength.

6000 series alloys have medium strength and their strength is increased by heat treatment. In addition, it has excellent corrosion resistance, easy extrusion and shaping properties. 6063 and 6061 alloys are the most commonly used alloys for extrusion.

With its general useful properties, it is frequently used in the automotive, marine and medical sectors.









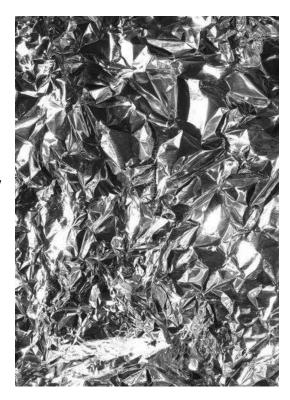
7000 Series Aluminum Alloys contain Zinc as the main alloying element. With the addition of other alloying elements such as magnesium, 7000 series alloys are the strongest of all alloys. However, it is susceptible to microsegregation and stress corrosion cracking.

7000 series alloys are commonly used in the aerospace, medical and automotive industries.

8000 Series Aluminum Alloys are often created by adding elements such as Lithium, Tin and Iron in different proportions to meet specific purposes.

Alloys gain various properties by adding elements such as Lithium for lower density and higher hardness, Iron and Cerium for high temperature performance, and Tin for higher fatigue resistance.

Frequently used in the aviation industry, food and pharmaceutical packaging.



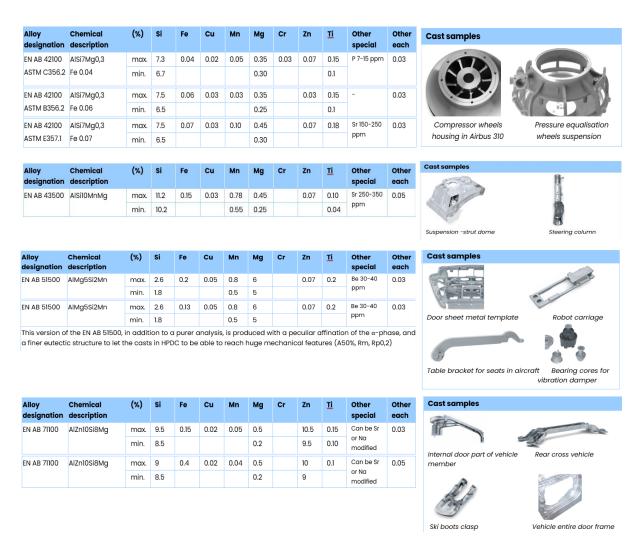


# **Aluminum Alloys**

Aluphoenix produces alloys complying with all international standards (ASTM, EN AB, DIN, BS, JIS, GHOST...) and customized alloys according to customers' requirements.

All alloys can be Sr/Na/P modified.

Even when used with recycled materials, Aluphoenix ingots are regenerated as one of the purest ingots, with thin and gas-free ingots, without oxidation intracrystalline and slag on the free surface.

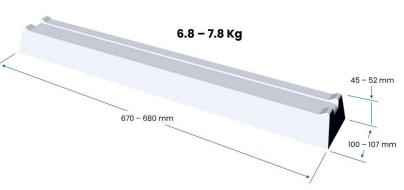


All Aluphoenix products are available on the website. https://www.aluphoenix.com/en/products/

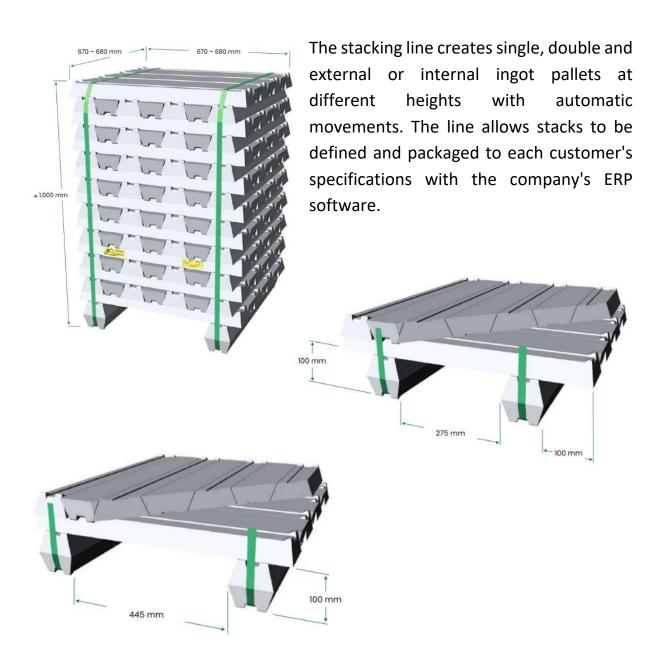


# **Ingot And Stacks**

The weight, size and shape of Aluphoenix ingots make them ideal for use the ingot both by hand and with the aid of a forklift. The ergonomics of the



ingots allow to keep the stacks intact and their integrity to remain intact.





#### Certification

Aluphoenix has developed and certified a fully integrated quality and environmental management system in accordance with IATF 16949:2016 (Automotive Quality Standard) ISO 9001:2015 and ISO 14001:2015.

The Aluphoenix management system is successfully tested annually by various members of the automotive industry supply chain.

Aluphoenix is always rated as a class A supplier. Valid certificates can be downloaded for free from the company website. <a href="https://www.aluphoenix.com/en/quality/">https://www.aluphoenix.com/en/quality/</a>

According to the company vision, Aluphoenix has certified its management system in accordance with **ASI Performance Standard V2:2017**. <a href="https://aluminium-stewardship.org/asi-certifies-aluphoenix-srl-against-performance-standard">https://aluminium-stewardship.org/asi-certifies-aluphoenix-srl-against-performance-standard</a>





## **Carbon Footprint**

Reducing the Carbon Footprint (CFP) at all levels of the aluminum supply chain has become the newest and most important target and added value as of 2024.

Many countries have passed laws imposing severe restrictions on the use of fossil fuels in vehicles (China Rep, US, EU), as well as in heating systems (EU).

The automotive industry has greatly accelerated the transition to electric vehicles, promoting the use of "green" materials, i.e. materials with low CFP.

Aluphoenix Srl has been engaged itself onto a cutting edge project to be able to calculate and declare the CFP of each process, along with the recycling content. And in this way, placing itself at the forefront of in the market.

Aluphoenix SrI has so far carried out an LCA study on the most representative alloys in the production process according to UNI EN ISO 14040:2006 and UNI EN ISO 14044:2018.

In addition, CFP evaluation was carried out according to the requirements of the ISO 14067:2018 standard.

From the study carried out, it was calculated that 1 kg of Aluminum produces a CFP equal to 4.47 kg of CO2 equivalent.

In line with the 2030 agenda, Aluphoenix Srl is committed to optimizing the production process in order to reduce greenhouse gas emissions per unit mass of the product, choosing to limit the use of water resources and opting for the use of renewable energy.



Türkali Mahallesi Nuzhetiye Cd. N0:46 A Blk , BESIKTAS, ISTANBUL, 34357, TR



