



Aluminium with a documented lower carbon footprint

Aluminium is corrosion-resistant, durable and highly recyclable. Alutrade has now developed ALUearth®, ALUearth+® and ALUearth Mix® to make it easier for you to choose aluminium with a documented lower climate impact.

ALUearth® offers low carbon emissions and has an average carbon footprint of 4.0 kg CO₂e/kg of primary aluminium, compared with the global average of 14,4–14,8 kg CO₂e/kg. This is achieved through the use of hydro, wind and solar power in the production process. A low carbon footprint reduces greenhouse gas emissions, helping to limit negative impacts on the climate.

ALUearth+® is produced using remelted aluminium from pre-consumer scrap. Since remelting aluminium requires

significantly less energy than producing new aluminium, this reduces carbon emissions to approximately 0.5 kg CO₂e/kg, according to the stated calculation method.

ALUearth Mix® is produced from pre-consumer scrap and may also contain a proportion of post-consumer material. This means it may contain both process scrap and consumer scrap, as well as a proportion of primary aluminium. The carbon footprint depends on the respective proportions of recycled and primary aluminium.

Using remelted aluminium reduces the need to produce new aluminium, saves energy, minimises waste and reduces the need for primary aluminium production.

ALUearth is available in three variants for different needs and carbon footprint requirements.



Primary aluminium with a maximum carbon footprint of 4.0 kg CO₂e per kg of aluminium.

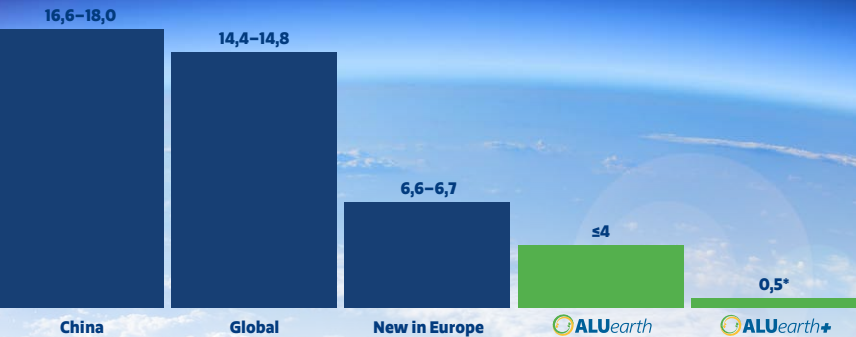


Produced from at least 95 percent process scrap, with a carbon footprint of 0.5 kg CO₂e per kg of aluminium, according to the stated calculation method.



Produced from pre-consumer scrap and may also contain a proportion of post-consumer material. This means it may contain both process scrap and consumer scrap, as well as a proportion of primary aluminium. The carbon footprint varies depending on the respective proportions of recycled and primary aluminium and is determined for each batch.

Co₂/kg, Billets



Source: International Aluminium Institute (IAI), 2024.
*The figure of 0.5 kg CO₂e/kg for ALUearth+® is an estimated value based on the following calculation: 6,7 kg / 100 × 5% = 0.34 kg.

Aluminium

- Aluminium is **highly recyclable**.
- Only **4–5 percent** of the energy required to produce aluminium is needed for the remelting process.*
- Aluminium can be **recycled again and again** without losing its properties.*
- Aluminium is **lightweight**.
- Aluminium is naturally corrosion-resistant and has a **long service life**.*
- **75–80 percent** of all aluminium ever produced is still in use.*

* Sources: Svenskt Aluminium, European Aluminium and The Aluminum Association.

We sort all our aluminium scrap by alloy. It goes straight back into the system to be used again and again.



There is more aluminium than any other metal in the Earth's outer crust, which is estimated to contain approximately 8% aluminium by weight. The most important ore for aluminium production is bauxite.



Renewable energy – for the sake of the future

Together with our suppliers, we take responsibility for ensuring that the aluminium we work with is produced and handled sustainably. The extrusion plants we work with have a well-established environmental approach and continuously pursue strategic environmental initiatives.

Several of the suppliers included in the ALUearth programme use energy from hydropower, wind power and solar power in their production. Process water from the production is also treated in their own closed-loop water treatment systems.

At Alutrade's facility in Växjö, we use fossil-free energy and also generate our own solar power.

We reserve the right to revise this document as circumstances and conditions may change over time.

Would you like to know more about how we work with environmental issues?
Contact your Alutrade sales representative or email us at info@alutrade.se.

For more information and contact details, visit aluminium.se.