

AL  *ever*

THE PRODUCT PORTFOLIO WITH LESS EMISSIONS.



## ANOTHER STAR IS BORN.

Our goal is to make all our products as environmentally friendly as possible, and thus to provide our customers with the best possible support in achieving their own environmental goals.

For this reason, we have created AMAG AL4®ever. AMAG AL4®ever stands for all aluminium rolled and cast products in AMAG's portfolio that are characterised by a particularly low carbon footprint: Namely, with „cradle-to-gate“ less than 4 tons of CO<sub>2</sub> per ton of aluminium.

Indeed, because there are still absolute „stars“ even among the best, we give all our products that have a carbon footprint of less than 2 tons of CO<sub>2</sub> per ton of aluminium, the AMAG AL4®ever star award.



What CO<sub>2</sub> optimisation potential is in your product?  
Please contact:  
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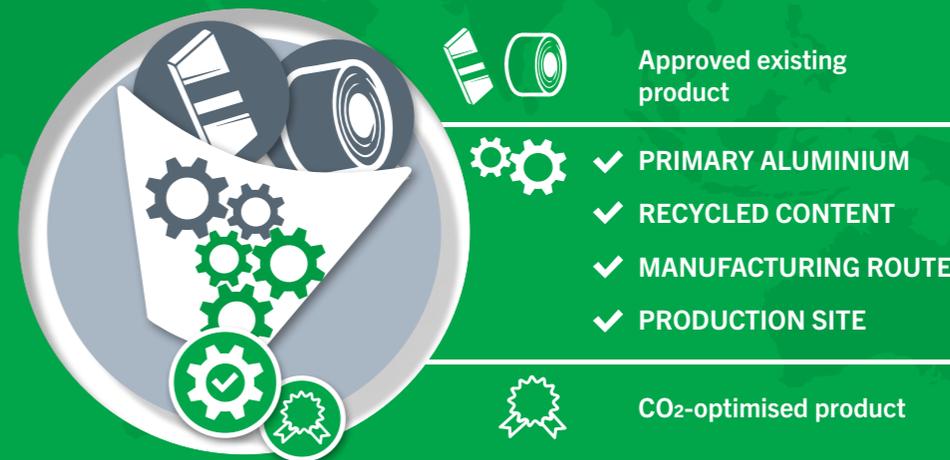
## Aluminium outside, green inside:

AMAG AL4®ever and AMAG AL4®ever star represents durable, sustainably produced aluminium quality products with particularly low CO<sub>2</sub> intensity. The new portfolio gives our customers the certainty of using premium products with an improved eco-balance.

## THE PATH TO AN CO<sub>2</sub>-OPTIMISED PRODUCT.

### The CO<sub>2</sub> optimisation phase:

Upon request, the AMAG AL4®ever team reviews the optimisation potential of your specific customer product. If it emerges that the CO<sub>2</sub> footprint of the requested product can be optimised by wisely changing the various parameters in such a way that the CO<sub>2</sub> intensity could be below 4 tons of CO<sub>2</sub> per ton of aluminium or even below 2 tons of CO<sub>2</sub> per ton of aluminium, assuming the material properties are the same, the product can be included in our award system AMAG AL4®ever or the AMAG AL4®ever star portfolio according to the relevant guidelines.





below  
4 t CO<sub>2</sub>

AL4 ever

below  
2 t CO<sub>2</sub>

AL4 ever★



## Same quality, fewer emissions:

The products from the AL4®ever portfolio are not different in terms of material or processing properties from our approved existing products. The only difference is that less CO<sub>2</sub> is used to achieve the same high quality.

## Transparent and certified:

AMAG monitors how much CO<sub>2</sub> is produced in each individual production step, making all emissions traceable. This is also documented by an auditing process. Product certificates are therefore available for all products, regardless of the actual level of their CO<sub>2</sub> footprint. Acquiring a certificate therefore enables our customers to document and report scope 3 emissions in their supply chain.



# AMAG\_green

## PIONEER IN SUSTAINABILITY.

As one of the leading aluminium recyclers worldwide, with more than 40 years of experience in this field, ecologically sustainable thinking and action has a long tradition in our company. The responsible use of resources and raw materials, along the entire value chain, is therefore an essential cornerstone of our corporate strategy.

### Ecological sustainability encompasses many aspects.

Whether clean production technologies, renewable energies, biodiversity, sustainable primary or recycled secondary materials, our umbrella brand **AMAG\_green** is the home for all our sustainability actions and measures, which pursue the common goal of keeping the impact of our business activities on the environment as low as possible.

### Committed to the environment.

AMAG holds various certifications, such as the ASI Performance Standard, the ASI Chain of Custody Standard and the EcoVadis rating, as well as ISO 14001, ISO 5001 and a high rating from Sustainalytics. Recycled content and carbon footprint calculations are based on ISO 14021, ISO 14040 and ISO 14044, energy data, scrap input and global warming potential are reported aggregated at a group level. All this is important and necessary to set the standards for compliance and achievement of environmental commitments.



## Sustainable primary aluminium thanks to hydropower:

AMAG holds a 20 % stake in the Canadian Alouette smelter, which produces primary aluminium and thus secures the supply of raw materials in Ranshofen. Alouette is not only the largest smelter in North and South America, it is also one of the most efficient in the world and is operated exclusively with electrical energy from hydropower. For one ton of primary aluminium produced by the Alouette, significantly less CO<sub>2</sub> is emitted than in electrolyses that rely on carbon or gas-based energy production.

The use of hydropower in electrolysis saves almost 1/10 of the CO<sub>2</sub> emissions compared to the use of coal.

- **HYDRO POWER** (Alouette)  
1,84 kg CO<sub>2</sub> / kg Al
- **GAS**  
7,1 bis 9,6 kg CO<sub>2</sub> / kg Al
- **CARBON**  
14,4 bis 20,0 kg CO<sub>2</sub> / kg Al

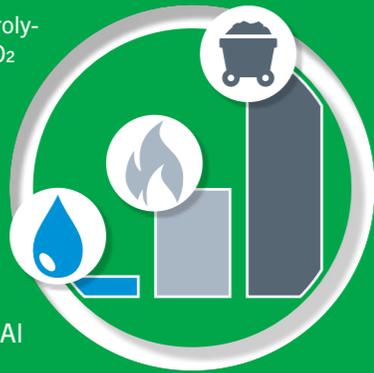


Figure: CO<sub>2</sub> emissions by energy source in electrolysis (as kg CO<sub>2</sub> per kg aluminium).  
Source: CRU, August 2018



## Recycling:

Recycling forms the basis for the manufacture of products with low CO<sub>2</sub> emissions, as only 5 % of the energy required for primary production is required when melting scrap. As one of the world's largest recyclers at a single location, AMAG has not only suitable melting aggregates but also unique processing expertise, which enables it to process a very broad spectrum of input materials and thus contain also a very high proportion of scrap. This means that the advantages of scrap as a recyclable material in the life cycle assessment of aluminium products, can be fully utilised.



## MANY ADJUSTMENTS FOR AN OPTIMAL RESULT.

### Climate-neutral production by 2040:

Our goal is to make our production climate-neutral by 2040. This goes hand in hand with the ambitions of Austria, where AMAG's headquarters are located, to become climate neutral 10 years ahead of the European Union. In view of this decision, we have developed a comprehensive plan for concrete implementation at the Ranshofen site. This decarbonisation roadmap comprises numerous measures, ranging from extensive R&D activities to investments in plants and infrastructure, relating to the core topics of circular economy, recycling, energy efficiency and fossil fuel substitution.



## Closed-Loop:

Aluminium recycling enables the closure of material loops in industrial production processes. To this end, AMAG offers the service of accepting production scrap directly from customers and returning it to them as high-quality cast and wrought alloys in the form of sheets, shates, plates, liquid aluminium, ingots or sows using state-of-the-art recycling technology. All this from a single source. This so-called „closed-loop recycling process“, which is developed together with the customer, aims to keep valuable aluminium products in the cycle and to make the best possible use of the excellent recyclability of the material.





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