

# Raffmetal offers primary grade, low carbon alloys as part of its new Silval range

With forty years experience in the metals industry, Raffmetal is introducing a new range of primary grade aluminium alloys from recycled sources, equal to the aluminium alloys produced from bauxite.



Raffmetal Low Carbon Aluminium

The construction of the new Raffmetal's production plant began in 2018, and is dedicated to the production of new primary alloys, called "Special Alloys".

The scrap metals, purchased worldwide, is stored at Raffmetal's plant where it is then filtered for selection, treatment and sorting. The technology separates raw material from the mix of impurities and organic parts, the selection process also includes a specific chemical analysis. This selection process makes it possible to maximise the percentage of recycled content used for the finished product as well as increases the alloy quality. These steps also contribute to lowering the carbon footprint of the finished product.

With total control over each step of the supply chain, the Raffmetal's plant makes it possible to supply costumers with good quality low carbon alloys, protecting the plant from possible market tensions and seasonal changes.

A melting process combined with continuous casting technology ensures high quality ingots and metal yields, which are under guarantee with a traceability system on every single piece.

### Why is the Silval range sustainable?

Thanks to the maximisation of scrap content and recycled sources, SILVAL alloys meets the needs of multiple target sectors, especially the Automotive industry, where recycled aluminium components that have a significantly low carbon footprint are in demand.

The data from the Life Cycle Assessment (LCA) study, a study that begun in 2019 in collaboration with a prestigious Italian University, presents analysis on the life cycle. This analysis has led to the classification of the carbon footprint of our 100% recycled alloys. This was completed

using the database, Ecoinvent 3.4, Software SimaPro 8.5.2.0. The Product Category Rules (PCR) is now underway for the recycled aluminium sector, which will lead to product EPD certification.

The LCA study has continued into the first months of production at the plant, testing the SILVAL range. The data will be used to further develop the product, alongside historical data.

The LCA calculations is the most used method of analysis and are used by OEM and Automotive customers, in order to ensure consistency and transparency along the supply chain.

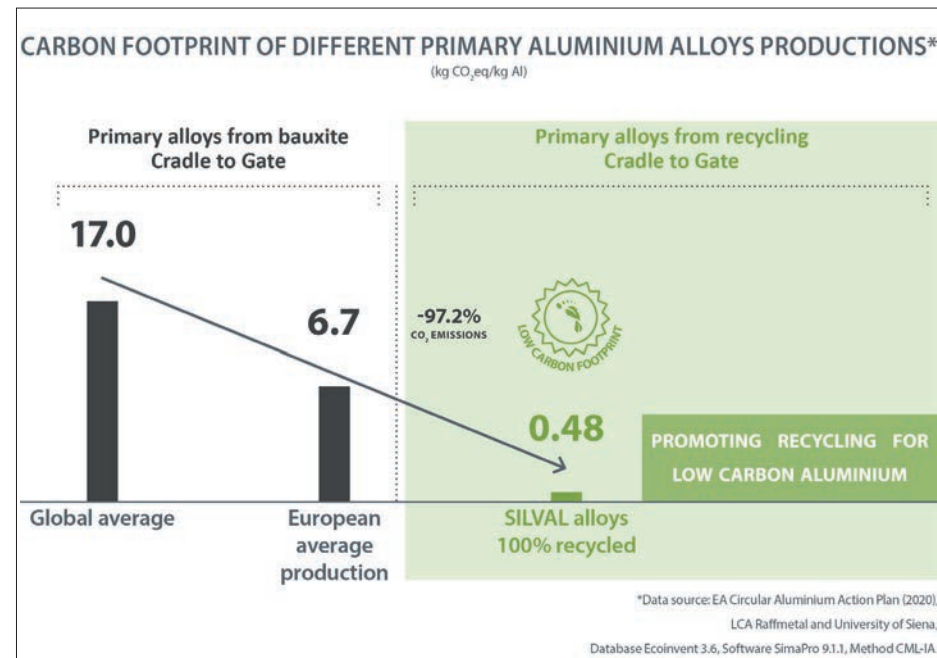
The results of this study places SILVAL alloys among the best performing alloys in the market. SILVAL primary alloys have a recycling content of between 80 and

100%. This produces a carbon footprint Cradle to Gate value of up to 0,48 kg CO<sub>2</sub>eq/kg of aluminium produced.

SILVAL alloys are, therefore, designed to help our customers achieve their goals towards a greater sustainable future and meet the demands of increasingly environmentally conscious consumers.

Raffmetal President, Orlando Niboli, says:

"In a context characterised by the need to take urgent action to preserve the planet and fight the climate change, thus contributing to the European objectives for decarbonisation, Raffmetal with its core business wants to be a protagonist of this change by offering a quality, sustainable, circular product with a low carbon footprint." ■



## Raffmetal launches green primary alloys

Orlando Niboli, Raffmetal President



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For more information, visit:  
<https://silval.raffmetal.it/en/>