

CLIMATE DECLARATION FOR LIQUID ALUMINIUM FROM RECYCLING

Functional unit: 1 kg liquid aluminum

The climate declaration shows the emissions of greenhouse gases, expressed as CO₂-equivalents. It is based on verified results from a lifecycle assessment (LCA) performed as basis for an EPD®, in accordance with ISO 14025.



Information about the product

For over 40 years Raffmetal has been offering its customers the possibility of receiving aluminium in liquid form: this practice allows the customer to save both in terms of energy (as the consumption linked to the remelting of ingot is avoided) and in terms of logistics, as loading-unloading and warehouse costs are reduced to zero thanks to the transport in ladle directly to the customer. Constant control of the value chain, from the purchase of scrap to in-house selection and valorisation with the best sorting and processing systems, as well as decades of knowledge of melting systems, allow Raffmetal to offer 100% recycled aluminium alloys conforming to national and international standards and to specific customer requests.

Information about the company

Raffmetal S.p.A. belongs to the Silmar Group, an integrated group of leading companies in the heating, recycled aluminium and plumbing sectors. The Group was founded in 1963 and is today recognised worldwide with the presence of more than 30 factories, maintaining its headquarters in Italy, in the province of Brescia. Raffmetal is today Europe's largest producer of aluminium alloys from recycling. It has a production

capacity of over 350,000 tonnes per year, 404 employees and three production plants located between Casto and Odolo, in the province of Brescia, and is able to meet the needs of international customers operating in different industrial sectors.

Climate declaration Upstream and Core

The table below lists the emissions of greenhouse gases Upstream and Core processes for the product in kg CO₂ eq. per 1 kg of aluminum ingots.

	Upstream	Core	TOTAL
GWP - Fossil	1.17E+00	5.09E-01	1.68E+00
GWP - Biogenic	4.61E-02	7.86E-03	5.40E-02
GWP - Luluc	1.07E-03	4.40E-04	1.51E-03
GWP - Total	1.22E+00	5.18E-01	1.74E+00

Other environmental impacts

For the full EPD, see www.environdec.com.

Contact information

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EPD PROGRAMME: THE INTERNATIONAL EPD® SYSTEM		REGISTRATION NO: S-P-06062	VALIDITY: 2023-05-08
PCR: PRE-CERTIFIED EPD	UN CPC: PRE-CERTIFIED EPD	PCR REVIEW CONDUCTED BY: THE TECHNICAL COMMITTEE OF THE INTERNATIONAL EPD SYSTEM	
INDEPENDENT VERIFICATION OF THE DECLARATION AND DATA, ACCORDING TO ISO 14025: DNV BUSINESS ASSURANCE ITALY S.R.L.			ACCREDITED / APPROVED BY: ACCREDIA
CLIMATE DECLARATIONS FROM DIFFERENT PROGRAMS MAY NOT BE COMPARABLE			
THIS SINGLE-ISSUE EPD ONLY ADDRESSES ONE ENVIRONMENTAL IMPACT CATEGORY AND DOES NOT ASSESS OTHER POTENTIAL IMPACTS ARISING FROM THE PROVISION OF THIS PRODUCT. THESE ASPECTS MAY BE OF EQUAL OR GREATER IMPORTANCE THAN THE SINGLE IMPACT CATEGORY DISPLAYED.			