

# POST CONSUMER RECYCLED ALUMINIUM



# 100% PCR ALUMINIUM PRODUCTS

## Our contribution to reaching your climate goals:

The carbon footprint of our PCR slugs is only 0.8 kg CO<sub>2</sub>e / kg aluminium whereas our virgin aluminium slugs cause 9.1 kg CO<sub>2</sub>e / kg (cradle-to-gate)\*

## Our PCR slugs save 91% CO<sub>2</sub>e.

\*Values based on quantities purchased in 2023

## PCR ALUMINIUM

ALUMINIUM TUBES  
RIGID ALUMINIUM TUBES  
ALUMINIUM BOTTLES  
AEROSOL CANS

- 100% PCR aluminium
- Significantly lower carbon footprint
- Available in all LINHARDT standard sizes
- Food grade PCR material

## PCR ALUMINIUM ALLOY

LIGHTWEIGHT ALUMINIUM  
AEROSOL CANS

- 100% PCR aluminium and 0.3% virgin manganese
- Material reduction, e.g. more than 17% possible for 150 mL cans



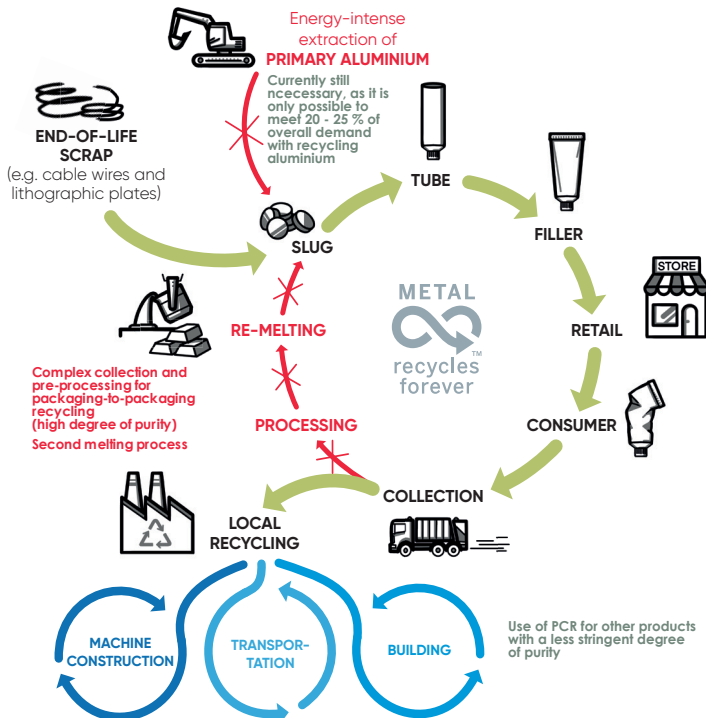
# OUR APPROACH TO PCR ALUMINIUM

## DEFINITION OF PCR

Post-consumer recycled aluminium, or PCR aluminium for short, is manufactured through the recycling of post-consumer aluminium scrap (waste after use). According to DIN EN ISO 14021, post-consumer scrap is material which can no longer be used for its intended purpose subsequent to its actual use. In this respect it is irrelevant whether the scrap comes from households, commercial, industrial, or institutional use.

## ORIGIN OF OUR PCR

LINHARDT PCR packaging contains 100% post consumer recyclate made from end-of-life aluminium scrap like cable wires or lithographic plates. This way, the resource intensive effort of collecting, sorting and cleansing needed for packaging-to-packaging recycling can be significantly reduced. In addition, these sources of PCR are characterized by a high material availability and thus supply reliability. The supply chain is transparent and traceable.



## PRODUCTION PROCESS



The scrap is purchased either directly from the previous owners or scrap dealers in Southeast Europe, East Europe and Central Europe.

The aluminium scrap is molten in a double chamber melting furnace with fumes filter

The PCR aluminium melt is transported directly from the melting furnace to the slugs production unit.

Unlike other aluminium producers, our partner is able to directly use the molten aluminium scrap for the production of slugs without an energy-consuming second melting process.

## MATERIAL CHARACTERISTICS

- Degree of purity: Al  $\geq$  99.1%
- Food conformity according to EC 1935/2004
- Slightly higher material hardness
- Annual supply capacity of 10,000t, capacity expansion planned
- Traceable supply chains
- Carbon footprint of 0.8 kg CO<sub>2</sub>e / kg PCR aluminium (cradle-to-gate)\*

\*Values based on quantities purchased in 2023

# YOUR BENEFITS

Closed material loops are a key building block for a sustainable future. In addition to increasing the recycling rate, this also includes the use of recycled material for new products.

- 91% lower carbon footprint for PCR aluminium slugs (cradle-to-gate)  
– 0.8 kg CO<sub>2</sub>e / kg PCR vs. 9.1 kg CO<sub>2</sub>e / kg virgin\*
- Closed material loops
- 100% Post-consumer recycled aluminium according to ISO 14021
- Transparent, traceable supply chains
- Reliable supply of recycle
- Food conformity according to EC 1935/2004

\*Values based on quantities purchased in 2023

