



Recycled post-consumer  
aluminium from Hydro



# Hydro CIRCAL

Hydro CIRCAL is our range of premium recycled aluminium, based on minimum 75% scrapped products that have lived a previous and useful life. With advanced and patented sorting technology, Hydro remelts scrap into electric vehicles, designer furniture, consumer electronics and building facades.



The production and raw materials in Hydro CIRCAL can be traced on an individual batch level and is delivered with an Environmental Product Declaration and verification statement from DNV.

## **The circular metal**

Aluminum is one of the strongest, most durable, and versatile metals available. It is light and can be easily machined, formed, and shaped, is resistant to corrosion and highly conductive. Various surface treatment options also give designers a wide range of aesthetic finishes.

Aluminium is a circular material that can be infinitely recycled without any loss of quality. In fact, approximately 75% of all aluminium ever produced is still in use today.

## **Shred, sort, separate, repeat**

Recycling scrap requires the removal of unwanted elements like paint, lacquer coating, oil, plastics, iron, minerals, and organic compounds. It is a technical and complicated process dependent on factors like scrap origin, original chemistry, previous use, and physical properties.

Decades of research and development has made Hydro a pioneer within aluminium recycling. Our global network of recyclers operates patented recycling technology, and our ambition toward 2030 is to double our current recycling capacity for end-of-life scrap.

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“Sorting scrap requires multiple iterations of shredding, eddy current separation, sink floating and x-ray separation”





### Changing the aluminium recycling game

Hydro CIRCAL is our range of premium, recycled aluminium products and is categorized by the percentage of scrap content.

Hydro CIRCAL 75R contains a minimum of 75% recycled post-consumer scrap.

Hydro CIRCAL 75R has a carbon footprint of 1.9 kilo CO<sub>2</sub>e per kilo aluminium, which is 88% lower than the global average for primary aluminium. Production requires strict control of scrap flows and advanced sorting technology. Availability is therefore limited, but annual capacity can accommodate industrial and larger-scale applications.

Hydro CIRCAL 100R is made from 100% recycled post-consumer scrap.

Hydro CIRCAL 100R pushes the boundaries for recycled aluminium with a carbon footprint below 0.5 kg CO<sub>2</sub> /kg aluminium, which is 97% lower than the global average for primary aluminium. Producing Hydro CIRCAL 100R is both complicated and time-consuming, and is therefore currently only available in small, on-demand batches.

The production and raw materials in Hydro CIRCAL can be traced on an individual batch level and the aluminium is delivered with an Environmental Product Declaration and verification statement from DNV.

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“Recycling is the quickest route to achieve near zero-emission aluminium”

### Solving the most pressing challenges of our time

Hydro is a leading aluminium and renewable energy company committed to a sustainable future. The company is based in Norway with a global network of smelters and recyclers, and owned bauxite and alumina production in Brazil. Hydro operates in a broad range of market segments for aluminium, energy, metal recycling, renewables, and batteries, offering a unique wealth of knowledge and competence.

From an origin as a fertilizer producer to feed a starving population, to oil and gas extraction to propel an evolving society, we have been in business since 1905. Today our 33.000 employees are committed to solving the pressing challenge of climate change with low-carbon, recycled aluminium that enables the green transition.

Would you like to speak to our salespeople about Hydro CIRCAL? Contact us here:



Learn more about our commitment to sustainable aluminium production here:



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“Whether it’s old windows, wheels, or beverage cans, recycling aluminium requires just 5% of the energy needed to produce primary aluminium”



*Industries that matter*

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Hydro is a leading aluminium and renewable energy company committed to a sustainable future. Our purpose is to create more viable societies by developing natural resources into products and solutions in innovative and efficient ways.