

Information for immediate publication

EDELRID BIRDLIME 1R: the First Climbing Rope Made of Bio-Based Material

A new approach to the resource-conserving production of climbing ropes thanks to the use of renewable raw materials.

With the BIRDLIME 1R, EDELRID presents the first synthetic climbing rope with a renewable material content of over 40%. Thanks to the use of bio-based polyamide, which is partly made from the oil of the castor plant, the Allgäu-based company has significantly reduced the use of fossil resources and therefore made a further pioneering achievement in the field of responsible climbing equipment.

“We regard the BIRDLIME as an outstanding product as it presents a further opportunity to offer climbing equipment with a responsible design and makes use of one of our most effective operational principles: ‘reduce’. This reduction in the usage of fossil-based crude oil is made possible by the use of bio-based materials. This proves that even when manufacturing high-quality outdoor equipment, it’s possible to implement a shift toward using resource-conserving materials”, explains Gianina Illing, CSR officer at EDELRID.



The BIRDLIME 1R is the first synthetic climbing rope to be partially made from renewable bio-based raw materials. It contains more than 40% castor-oil-based yarn, known by the technical name PA6.10, reducing the use of classic crude oil. It is important to note here that although such a substitution reduces the use of fossil raw materials, it does not automatically reduce the overall ecological footprint. “This makes it all the more important to identify and understand the

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challenges associated with the use of bio-based materials. To assess the ecological footprint, we therefore have to address new questions, specifically *‘How is the castor oil obtained and where does it come from?’*, *‘How responsible is the commercial cultivation of the castor plant and what habitat could this potentially displace?’*, *‘How do the pesticides used affect our ecosystems?’*, and *‘Is the end product recyclable?’* Illing continues. “One thing we do know for sure is that the BIRDLIME 1R is another important step on the road toward a conscious use of our limited resources and therefore compliments our range of responsible equipment.”

In launching this new product, EDELRID highlights that it is possible to use bio-based materials even when manufacturing personal protective equipment and offers the climbing community a responsible alternative in the form of a robust all-round rope with a 9.8 mm diameter for versatile use.

[Download product images in 300 dpi](#)

Technical details

- The first synthetic rope on the market to be partially made from renewable raw materials
- Over 40% of the rope is made from bio-based material obtained from the oil of the castor plant
- Makes far lower use (1R) of conventional yarns from fossil raw materials and promotes the use of renewable raw materials
- Certified as a single rope
- Weight per meter: 60 g
- Colors: royal-pink (277)
- Thermo Shield treatment for pleasant handling
- 3D lap coiling enables instant use without tangles

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About EDELRID:

Since its establishment in 1863, EDELRID has developed into a leading manufacturer of personal protective equipment (PPE), especially ropes and climbing equipment. EDELRID products are developed for mountaineering and climbing. Furthermore, EDELRID climbing equipment is used for professional purposes, for example for work safety, industrial climbing, tree care, mountain rescues, and rescues from heights. The company is particularly characterized by outstanding innovation and its focus on sustainability. EDELRID specializes in the development and production of ropes, and brought the first bluesign® certified ropes to the market. All product development activities take place at the head office in the German town of Isny im Allgäu, where 60 percent of all products (including 100 percent of ropes) are produced. This guarantees not only exceptional quality and functionality, but also ongoing innovation. The renowned climbing shoe brand Red Chili has been part of EDELRID's product portfolio since 2017. Since 2022, the EDELRID Group has also included avalanche backpack manufacturer ABS Sports + Protection GmbH & Co. KG.

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