

Carbon footprint of Woodmer Bind

Product	Kg CO₂ eq. per kg product (dry basis)
Woodmer Bind (Formula 1:6)	-0,325

Objective of this information is to give customers, investors and legislators quantified figures of the CO₂ emission created during the production of WOODMER and WOODMER pulp. The system boundary used in the model is the cradle-to-gate, focusing exclusively on the production phase of the polymer.

The inventory analysis used in the investigation includes the following:

- Heat, water and electricity consumption
- Raw material, chemicals and substances used in production including transport to plant.
- Handling of side-streams
- Including biogenic uptake due to the renewable feedstock

The inventory analysis excludes:

- Packaging and transport to customer.
- Transportation of chemicals to plant.
- Indirect and direct land use.
- Process advantage: The integration of the Ecohelix process into the host pulp mill enable CO₂ emission savings allocated to the production of WOODMER.

Method:

- Specific consumptions of raw material, chemicals, heat, electricity and water is based on Ecohelix models for a large-scale plant.
- The method used is the IPCC 2021 GWP100 method in accordance with ISO14044:2006.
- Carbon emission factors used in the calculation where either provided by supplier of chemicals or utilities or found in the data base provided by Ecoinvent 3.9.

The sustainability of product and production is a cornerstone of Ecohelix vision and is of high importance to us in the development of processes and products. However, the information given in this document is based on models using assumptions of a large-scale production. A more detailed and proper investigation will be performed when scaling up the production and be based on actual consumption figures.

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