

MATERIAL

NEOPS®

Certified biomass-based* foam material



NEOPS



Material advantages

Alternative material solution to petroleum-based EPS that contributes **to the circular economy of plastics**†:

- > 100% derived from biomass*
- > Reduces dependence on fossil feedstocks*
- > Low carbon*
- > Recyclable in existing EPS channels, including KNAUF Circular®



Characteristics

- > Appearance, performance and technical characteristics identical to EPS
- > REDcert² certified product and process according to the Mass Balance approach
- > Different grades of material available
- > Suitable for food contact

*These claims are supported by figures and illustrated by an example on the reverse side of this sheet.

NEOPS®

Our material solution that contributes to the circular economy!

- > **100% biomass-based¹:** NEOPS® is manufactured from raw materials derived from renewable resources, using the biomass balance process². This means that renewable raw materials are used instead of fossil raw materials in chemical production processes and current supply chains.
- > **REDcert³ certified³:** For the manufacture of NEOPS® products or components, the entire value chain is certified, from the resources used to the successive manufacturing processes. The certification of each stage enables us to obtain a specific product certificate issued by REDcert. Our Knauf Industries sites and processes are also certified.
- > **Recyclable at end-of-life:** NEOPS® products are recyclable in existing EPS channels, including KNAUF Circular®, Knauf's collection and recycling channel in France.

¹ Biomass from industrial waste unsuitable for food use or organic waste (organic waste from the forestry industry, not involved in deforestation, no competition with agricultural land for food production). Directive (EU) 2015/1513, Annex IX, Part A.

² Source: The Ellen MacArthur white paper on circular economy.

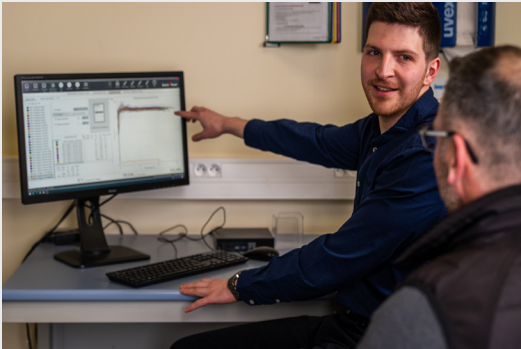
³ REDcert is a certification system for material flows in the chemical industry.

“100% biomass-based: renewable raw materials are used instead of fossil raw materials.”



Knauf Industries site certificate available on our website. Product certificate available on request as it is specific.

NEOPS® offers the same technical and visual properties as virgin fossil-based EPS!



- > Both materials have been tested in our ID lab in accordance with ISO standards

Various grades are available to meet your specific performance requirements:

- > **Mechanical resistance:** high compressive and tensile strength
- > **Fire resistance:** compliance with safety standards
- > **Thermal conductivity:** thermal resistance for optimal insulation
- > **Shock absorption:** effective protection
- > **Food contact:** safety and compliance for sensitive applications

Example of NEOPS® benefits

- > NEOPS® contributes to the reduction of greenhouse gas emissions (CO₂).



NEOPS

- > For a water heater manufactured at a rate of 100,000 units per year, the use of protective packaging made from NEOPS® material, manufactured in France, saves 100 tonnes of raw materials from fossil resources per year and reduces CO₂ emissions by 56% compared to equivalent EPS packaging. Internal calculation, according to the GHG Protocol method, using internal average data for France 2022, cradle-to-gate.

