

foam.hybrid

foam.hybrid eNdura

**SUSTAINABLE
LIGHTWEIGHT.
LASTING COMFORT.**



NEVEON

The Future of Foam

LIVING COMFORTABLY WITH A CLEAR CONSCIENCE

Sustainable products require creative thinking outside the box along the entirety of the value chain. That's why we are exploring various directions of impact in a comprehensive and committed way so that the company can contribute to a livable and healthy future. With our **foam.hybrid eNdura** we have set a new standard. **foam.hybrid eNdura** is not only a dream in terms of comfort and durability, but also boasts an unprecedentedly low carbon footprint. Our innovative mix of raw materials enables maximum comfort with minimal use of materials, thus conserving valuable finite resources. **foam.hybrid eNdura**: the environmentally conscious choice!

LONG-LASTING DIMENSIONAL STABILITY AND UNMATCHED COMFORT

Our **foam.hybrid eNdura** foams offer unmatched performance and maximum comfort. Despite their low weight of only 38 kg/m³, they guarantee dimensional stability, like a high resilience foam of 52–70 kg/m³; even with intensive and prolonged use. The balanced pressure distribution properties coupled with outstanding restoring force result in an innovative product that is soft and velvety on the surface and elastic and supportive on the inside. The exceptional springiness guarantees even pressure distribution in every sleeping position, relieving pressure on the intervertebral discs and thus improving sleep quality. At the same time, the high level of air permeability ensures breathable sleeping conditions with excellent moisture and heat regulation. **foam.hybrid eNdura**: brings mind and body into harmony.

GOOD FOR THE ENVIRONMENT WITH 30% MASS-BALANCED RAW MATERIALS

By using sustainably certified renewable raw materials in accordance with REDcert², NEVEON offers a product that cuts down on the use of finite resources – **foam.hybrid eNdura**. This helps us to make an active contribution to the decarbonization of the value chain. With **foam.hybrid eNdura**, we are also focusing on sustainable solutions early on in the value chain and replacing some of the raw materials derived from fossil fuels with biological ones. For example, we are using biogas instead of natural gas in the chemical synthesis of raw materials.

LIGHTWEIGHT WITH AROUND 70%* FEWER EMISSIONS

Thanks to our innovative mix of raw materials, **foam.hybrid eNdura** reduces the amount of material used in the production of mattress cores from 24.5 kg to a lightweight 15.4 kg while still maintaining the same high quality, thus leading to resource-saving production. The low weight also makes the mattresses particularly easy to handle and means they take less effort to turn and cover.

We have also found ways to reduce the greenhouse gas emissions associated with the production of 1 kg of foam from the Europur reference value (3.22 kg of CO₂-eq/kg) to an impressive 1.4 kg of CO₂-eq/kg. Applied to a single mattress core, this means a green CO₂ consumption of only 21.5 kg, down from 79 kg.

BENEFITS AT A GLANCE

- Use of 30% mass-balanced raw materials.
- Efficient use of raw materials for optimum performance with lower material consumption (less than 40 kg/m³).
- Outstanding durability and optimum air permeability.
- Unique equalizing pressure distribution for maximum comfort and mobility.

* Internal calculations as of December 2023, subject to change.

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CERTIFIED QUALITY

- OEKO-TEX® STANDARD 100
- CertiPUR™
- ISO 9001
- ISO 14001
- LGA-tested for contaminants
- REDcert²



QUALITY GRADES

LOAD CHANGES
> 80,000 CYCLES

Quality	Density (kg/m ³)	Com-pressive strength 40% (kPa)	Elasticity (%)	Tensile strength (kPa)	WCS* (%)	Change in height (%)	Change in hardness (%)
① Y3812 ND MB30 Wild rose	36–40	0.9–1.5	> 45%	> 60	< 3%	< 1%	< 2%
② Y3822 ND MB30 Tulip	36–40	1.7–2.7	> 45%	> 60	< 3%	< 1%	< 2%
③ Y3830 ND MB30 Peony	36–40	2.5–3.5	> 40%	> 80	< 1%	< 1%	< 8%
④ Y3838 ND MB30 Fuchsia	36–40	3.3–4.3	> 35%	> 100	< 1%	< 1%	< 8%

* Wet Compression Set according to Renault 1637 Mod. 2

COMPARATIVE CALCULATION

Core size 2000 x 900 x 180 mm	HR density 60	Y3838 ND MB30 Fuchsia
Material consumption per core	Approx. 24.5 kg	Approx. 15.4 kg
Global warming potential	3.22** kg of CO ₂ -eq/kg	1.4 kg of CO ₂ -eq/kg
Global warming potential per core (kg of CO ₂ -eq/kg)	Approx. 79 kg of CO ₂ -eq/kg	Approx. 21.5 kg of CO ₂ -eq/kg

** Europur reference value = 3.22 kg of CO₂-eq/kg



With a comparable service life, approx. 70% less CO₂ is emitted in the value chain for the production of **foam.hybrid eNdura** (Internal calculations as of December 2023, subject to change.)



We are NEVEON and foam is our world.

As a strong partner of both trade and industry we offer foam solutions for a huge range of applications, from the comfort segment through the transportation sector to a limitless variety of specialty applications. However, irrespective of how dissimilar our products and their areas of application are, they constantly have one common goal. They improve the energy balance in many contexts and make life more comfortable and safer. Or, in other words, simply better!



CONTACT

We would be happy to send you further product information.

Just get in touch!

We look forward to hearing from you.

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