



AVEMA



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AVEMA is a pioneer and implementer of **sustainable solutions** through **upcycling**. AVEMA gives natural by-products and residual materials from industrial production a second life through surprisingly creative products. Our patented developments use recyclable materials that are not needed in other productions or accumulate as recycled materials. In this way, we reduce unused resources while paying attention to **energy efficiency** and **water consumption**.



**AVEMA – a second life
for recyclables**

ODP – the fertilizer made of pure organic natural fibers

The ODP is an organic fertilizer pellet made of pure collagen fibers and with a built-in long-term effect. The fertilizer is suitable for almost all plants. ODP is the ideal nitrogen fertilizer and also serves to promote soil life. It also bridges fluctuations in the water supply due to its moisture regulating effect. The pellet stores many times its own weight in moisture and can release this back into the soil.

- Collagen as animal by-product and hemp
 - huds as vegetable by-product
 - Truncated conem, Ø x H: approx. 12 x 10.5 cm
6 % nitrogen content, moisture regulating, plastic free, growth promoting, root friendly
 - Suitable for potting machines, backmachines, professional horticulture, production horticulture
- Accumulation/flood table use:
8–12 weeks

PURE
NITROGEN
FERTILIZER





**100 % BIO-
DEGRADABLE**

GRETA – the plant pot that turns into a fertilizer

- *Collagen as animal by-product and hemp hurds as plant by-product*
- *Hexagonal cone with round bottom, Ø x H: approx. 12 cm x 10 cm*
- *6 % nitrogen content , fertilizes with nitrogen during decomposition, moisture regulating, plastic free, growth promoting & root friendly*
- *Suitable for agriculture and horticulture, vegetable growing & cultivation*

The 100 % biodegradable plant pot is made on the basis of collagen and hemp fibers. By planting along with the pot, the plant does not suffer transplant shock. Even before decomposition, the plant's roots can penetrate the pot. GRETA is moisture regulating and during decomposition fertilizes the plant with important nitrogen, in the initial phase. By using regional natural fibers for reinforcement and our collagen fiber, GRETA is free of plastic.

GRETA pro – for professional horticulture

Specially developed for professional horticulture, GRETA pro is available in round with rim and thus pot machine compatible. GRETA pro withstands a cultivation period of up to twelve weeks on accumulating and flood tables. When placed in the soil, the plant pot begins to decompose and evenly release an incorporated nitrogen fertilizer to the plant. Within about six months, GRETA pro decomposes without leaving any residue - depending on the soil conditions.

- *Collagen as animal by-product and hemp hurds as vegetable by-product*
- *Truncated conem, Ø x H: approx. 12 x 10.5 cm*
- *6 % nitrogen content, moisture regulating, plastic free, growth promoting, root friendly*
- *Suitable for potting machines, backmachines, professional horticulture, production horticulture*
- *Accumulation/flood table use: 8 – 12 weeks*

**100 % BIO-
DEGRADABLE**





ONE COMPOUND
MANY
POSSIBILITIES

KOLLAMAT® – a sustainable compound

- *High quality recycled leather fibers, additives, thermoplastic bio-polymers*
- *Processing: injection molding, extrusion, pressing*
- *Pleasant feel, moisture-regulating, shock-absorbing, gentle on joints,*
- *UV-stable, abrasion-resistant, variably adjustable strength and hardness*
- *For handles of tools, ski and hiking poles, extruded profiles, floorboards & leather-like surfaces etc.*

Kollamat® combines the haptic and moisture-regulating properties of leather with the processing properties of high quality polymers. The compound forms a warm, unique surface and is variable in strength and hardness. Kollamat® offers a wide variety of manufacturing processes and product classes. Depending on the area of application and use, it can be combined with various additives such as flame retardants, UV stabilizers, talcum, processing aids and master batches.

CALOR – a blow-in insulation for creative ideas

Our blow-in insulation consists of a special, stabilized collagen fiber that can be processed helically and homogeneously during production. This makes an ideal combination of acoustic and thermal insulation possible. Due to the natural conditions, our fiber is self-extinguishing without chemical additives and does not continue to burn without external energy. The moisture-regulating properties ensure a pleasant indoor climate at any time of the year.

- *High quality recycled leather fibers*
- *Loose fibers*
- *Acoustically and thermally insulating, moisture regulating*
- *Application as filling material, bulk & blow-in insulation (new & old buildings, prefabricated buildings), renovations, industrial installations, machines, cabins, interiors*

100 %
UPCYCLED
LEATHER FIBER





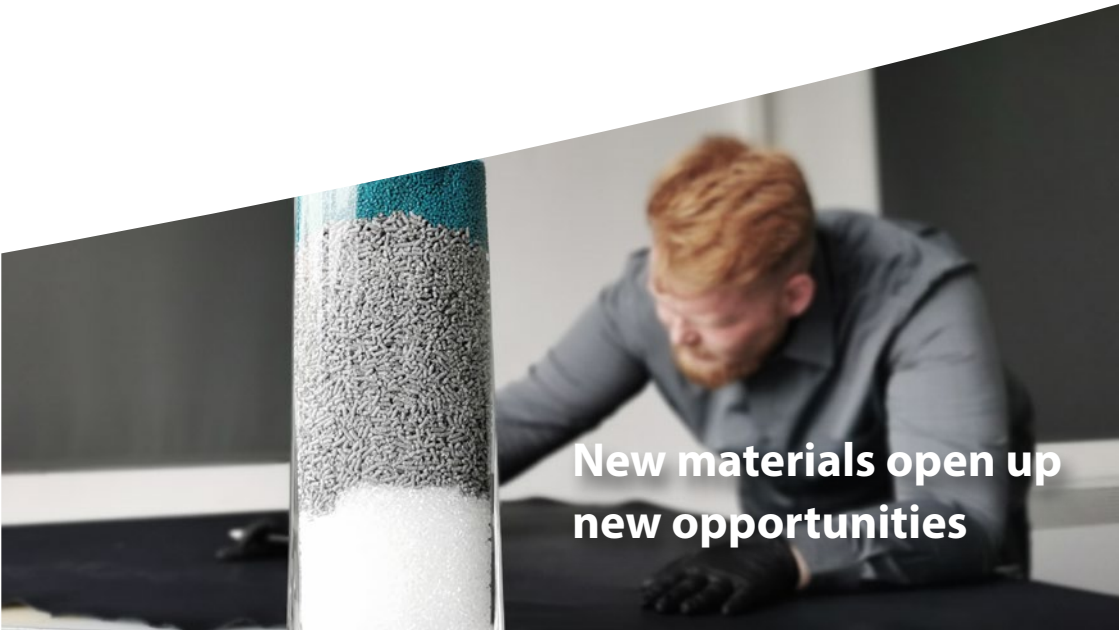
INNOVATIVE
FUN
COMFORTABLE

ANIMAL – a beanbag with a whisper feature

- 100% high quality, recycled leather fibers (filling), blanks made of high quality automotive leather (cover)
- Animal variants: Berta bear, Hanni rabbit, Karla kangaroo, Emil elephant
- Reduces room sound and reverberation time, seat comfort and weight are variably adjustable
- Use in reverberant business and living rooms, arks, kindergartens, schools

The beanbag is made of high quality and durable automotive leather. The one hundred percent recycled and in-house developed filling consists of specially processed leather fibers and recycled memory material. Due to the full-surface perforation of the robust automotive leather, the surface looks classy, creates a pleasant room climate and absorbs disturbing ambient noise. In a 20 square meter acoustic reverberation room, a single beanbag can reduce the unpleasant and unnatural reverberation time of nearly four seconds, by one second.

We are continuously developing new ideas and optimizing our products. We would like to let you participate in these exciting projects while they are still in the development phase.



**New materials open up
new opportunities**



COMING
SOON

SUMO – the extremely resilient floor board

Due to the flexibility and impact resistance of the material, it can withstand high loads. Even with weathering, the material does not lose its good properties. The boards can be dyed stably, even with a small amount of organic dyes and customized to your wishes. The boards can also be used for a fence and privacy screen and cladding for walls, stairs and pool installations. The material is ideal for all areas that are used in the garden or on the terrace.

YETI – the thermal insulation

We are working together with renowned institutes to develop a functional, high quality and resource-saving natural fiber insulation. This will result in insulation in the form of sheet material, for example for prefabricated houses. The moisture-regulating and acclimatizing properties will create an ideal indoor climate. Based on low-energy and water-free processes, our thermal insulation will be another upcycled product.

IN
DEVELOPMENT





IN
DEVELOPMENT

BENJI – the impact sound insulation

The natural fiber leather can – via its modified helical structure – store air and form the smallest possible microporous-like structures. We achieve this without the use of chemical or physical foaming additives. Despite the high stability of the insulating elements, sound transmission is reduced. Due to the flexible adaption to subsurfaces, uneven surfaces can be leveled out without any problems.




Sustainability has no technical or qualitative limitations. For me, working at AVEMA means using existing material to generate products with the same or better properties.

Kai Helfersdorfer - Head of Technology and Development

*AVEMA offers me new exciting tasks and challenges every day.
I learn a lot and have extensive exchanges of experience
with clients, partners and experts in innovative market segments
and applications. There's no more motivation than that!*

Lothar Grimm - Head of Sales





AVEMA GmbH • Metzgerstr. 32–34 • D-73033 Göppingen
+49 7161-6728 261 • info@avema.eu • www.avema.eu