



penergetic k

FAQs



What is penergetic k?

How does penergetic k work?

By activating microorganisms, the base material in the compost heap is transformed into valuable compost.

In animal houses, it improves sanitation and climate.

What are the effects of penergetic k?

Application of penergetic k reduces unpleasant odors in animal sheds, from compost heaps, manure or organic waste. The composting process itself is accelerated and optimized, the final product (humus) becomes enriched by the aerobic rotting processes.

Where is penergetic k used?

- Organic waste bin and household
- Compost
- Various heaps and stacks
- Solid manure in animal houses
- Deep litter and straw bedding

Where should penergetic k NOT be used?

On the field. penergetic b for soil should be used there instead.

What is the difference between penergetic k and penergetic b?

penergetic k improves aerobic rotting processes and accelerates the materials' conversion to compost. It can also help improve the climate in animal sheds by reducing the ammonia content.

penergetic b is used in fields. By activating soil life, soil fertility is sustainably improved and the soil structure (tilth) is optimized.

Can penergetic k be used as a disinfectant?

No! penergetic k is not a disinfectant. However, the product works with existing microorganisms, helping to reestablish a good balance between "good" and "bad" bacteria over time.

The biological activity promotes the stabilization of the environment, which in turn can support sanitation. A stimulation of aerobic processes and the stabilization of the environment manifests itself in the reduction of flies.

Can penergetic k reduce salmonella and E. coli?

No. Penergetic-k does not have a chemical effect. This means that it does not directly attack pests or harmful bacteria. Since the aerobic environment is improved, salmonella and E. coli cannot develop easily. However, a lasting reduction also depends on other factors (hygiene, feed, water quality, etc.).

Will it lead to problems if penergetic k is used in deep litter and penergetic g in slurry? Do the two products affect each other adversely?

No, they supplement each other since each of the products carries specialized information for its respective area of use.

Using penergetic k in a deep litter may lead to a very fast rotting process, sometimes causing the animals to sink in. In those cases, penergetic k should be mixed with uninformed powdered mineral, sand or earth and the dose slightly reduced.

With which other products can penergetic k be used?

penergetic k can be mixed with water, barnyard manure, horn, blood and bone meals, compost starters or other biological or chemical products.

Close observation of the compost is required as well as monitoring the reduction of these agents. Furthermore, the agents should be reduced in increments.

What are the indicators for the effects?

Primarily the reduction of odors. Later on in the process better rotting, a crumblier structure of the compost and fewer flies can be observed.

Why are the dosages so low?

For example, 250 g of Bentonite contains approximately 5.96 quintillions of particles. Each particle has been treated with the Penergetic technology and thus has an additional active property.

When the product is applied (whether mixed with water or other dry or liquid substances), these particles are spread over an area and form a "grid", which then emits its effects to its surroundings.

Is penergetic k in any way harmful to humans, animals or the environment?

penergetic k is completely harmless to humans, animals and the environment.

Carrier materials

Bentonite

Suitable for long-term activation. In addition, Bentonite is a mycorrhiza stimulant and helps to bind toxins.

- Please see the safety data sheet (SDS) on Bentonite for more details.

Calcium Carbonate

Suitable for long-term activation.

- Please see the safety data sheet (SDS) on Calcium Carbonate for more details.

Sikron

Suitable for long-term activation. It can also be mixed with fertilizers. One of Sikron's properties is that it remains suspended for longer.

- Please see the safety data sheet (SDS) on Sikron for more details.

Molasses

penergetic k Molasses yields rapid effects and is suitable for mixing with liquid fertilizers.

- Please see the safety data sheet (SDS) on molasses for more details.

Can penergetic k Molasses and the powdered products be combined?

Yes, it is possible to combine the products. Molasses can be used as a rapid activator (starter) and Bentonite, Calcium Carbonate or Sikron for a long-term, sustainable activation of the compost.

- Please see the penergetic k application notes for more details.

Application of penergetic k

Can penergetic k be introduced into the slurry pit?

We recommend using penergetic k in the slurry pit only if persistent floating layers are not broken down. The best product for this purpose is penergetic k molasses since the sugar is quickly absorbed by the bacteria.

How is penergetic k applied to solid manure?

Dry application, ideally mixed with sand or sawdust. Apply penergetic k evenly to the compost layers. For a liquid application, dissolve penergetic k in water. When an existing heap is no longer to be turned, poke several holes into the heap and pour penergetic k into these holes.

How is penergetic k used in animal sheds?

The barn needs to be mucked out and cleaned first and penergetic k is then applied to the floor and the walls. A dry or liquid application is possible. This process needs to be repeated after each littering.

Does penergetic k have any additional effects in the animal shed?

The nutrients in the manure emit less gas. Also, the climate in the animal shed is improved and less ammonia is emitted when mucking out.

Can penergetic k be applied to chicken manure heaps?

The chicken feces should be stored indoors if possible. The chicken feces can be mixed with 15 to 20 % of shredded material. The heap should not be higher than 1.20 m and not wider than 2.50 m at the bottom. The core temperature should not exceed 60 – 65° C.

Ideally, the heaps should be turned twice after 10 days. They can then be moved outdoors.

Can penergetic k be applied to compost heaps?

penergetic k can be added when the heap is started or turned.

Can penergetic k and penergetic p be used together?

No. The two products work in different ways that may cancel each other out.

Can penergetic k be applied dry?

Yes, but it should be mixed with a suitable material (sand, clay, earth, etc.). This makes the application easier.

Can penergetic k be used in the holding area and on concrete floors?

Yes. Mixed as outlined under item 18. penergetic k should only be applied to outdoor surfaces when these are relatively dry. penergetic k helps to control odor and the development of flies.

Can penergetic k be poured / scattered over animals?

Yes, there is no danger to the animals.

Dosage / timeline

Dosages

- Please see the different application notes in the penergetic k instructions

Is it possible to use too much penergetic k or to apply it too frequently?

penergetic b and penergetic k are the only products that cannot be used too frequently and that cannot be applied in too large amounts. Larger doses of up to 4 or even 8 kg / ha for field composting have yielded very good results. The amounts and intervals of application are often defined by the costs.

What effects does this have?

Since the base material is a natural substance, there are no negative effects from using the product. If larger dosages are used for field composting, then these dosages may be reduced over time.

Further product details

Which certifications have been awarded?

Penergetic Int. AG is ISO 9001:2015 and Fami QS certified and registered with the following organizations: FIBL, InfoXgen, Bio Austria, IFOAM and OMRI.

What is the shelf life of penergetic k?

The powder lasts 5 years from the date of manufacture.

Molasses lasts 18 months from the date of manufacture.

Does the shelf life of other agents change if they contain penergetic k?

Agents that contain bacteria should only be mixed with penergetic k just before they are applied since penergetic k stimulates bacteria growth. Otherwise the shelf life of other agents is not affected.

How should the product be stored?

Do not store the product on metal, but on a wooden surface. The containers must be stored in a dry environment and have to be tightly closed after use. Store the powder in a dry place. Store molasses in a dry and cool place (max. temperature 35° C).

Tips and tricks

How can the effects be enhanced?

- By using an AquaKat for irrigation water.
- In combination with other Penergetic products.

What is the difference between rotting and putrefaction?

Rotting

- N (nitrogen) – bound in plant-available form, as fungal and bacterial protein.
- Actinomycetes, yeasts, mold fungi, mushrooms, penicillin - antibiotics.
- Mold fungi produce vitamins, enzymes, copper, manganese, magnesium, zinc, molybdenum etc.
- Promotes the growth of ground-covering bottom grass.
- High fertilizing capacity – formation of real humus.

Putrefaction

- Acid, pungent putrescent odors – hydrogen sulfide, methane, NH₃ – high N (nitrogen) losses.
- Pests, flies, pathogenic germs and viruses, toxins – lead to disease.
- Strong root toxins – scorching, no aerobic slurry.
- Harmful to microbiology, earthworm population etc.
- Pollutants dissolve, groundwater, N (nitrogen) losses.

Specialized products

penergetic k for bedding

Optimizes sanitation and improves the climate in the animal house.

Please see the penergetic k application notes for more details.