penergetic g

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Explanatory notes

Use the biostimulation processes of penergetic g to produce valuable liquid farmyard manure.

penergetic g optimizes slurry and liquid manure. The product helps to make slurry more homogenous and flowable. Aerobic conversion processes assist in breaking down floating and sedimentation layers and lead to a reduction in odor emissions. The slurry that has been activated in this way becomes a valuable liquid farmyard manure that needs to be agitated less and can be applied more easily.

Benefits

- Supports slurry homogenization
- Helps to break down floating layers
- Converts problematic anaerobic slurry to a valuable fertilizer
- Reduces unpleasant odors
- Makes the slurry less aggressive to plants
- Improves the climate in animal housing
- Reduces need for agitation
- Less scorching of plants
- Fewer blockages in drag hoses
- Easier application
- Suitable for treating cattle and pig slurry
- Is environmentally friendly and approved for agricultural use
- Reduces the need for using machinery
- Improves biological quality
- penergetic g is completely harmless to animals, humans and the environment

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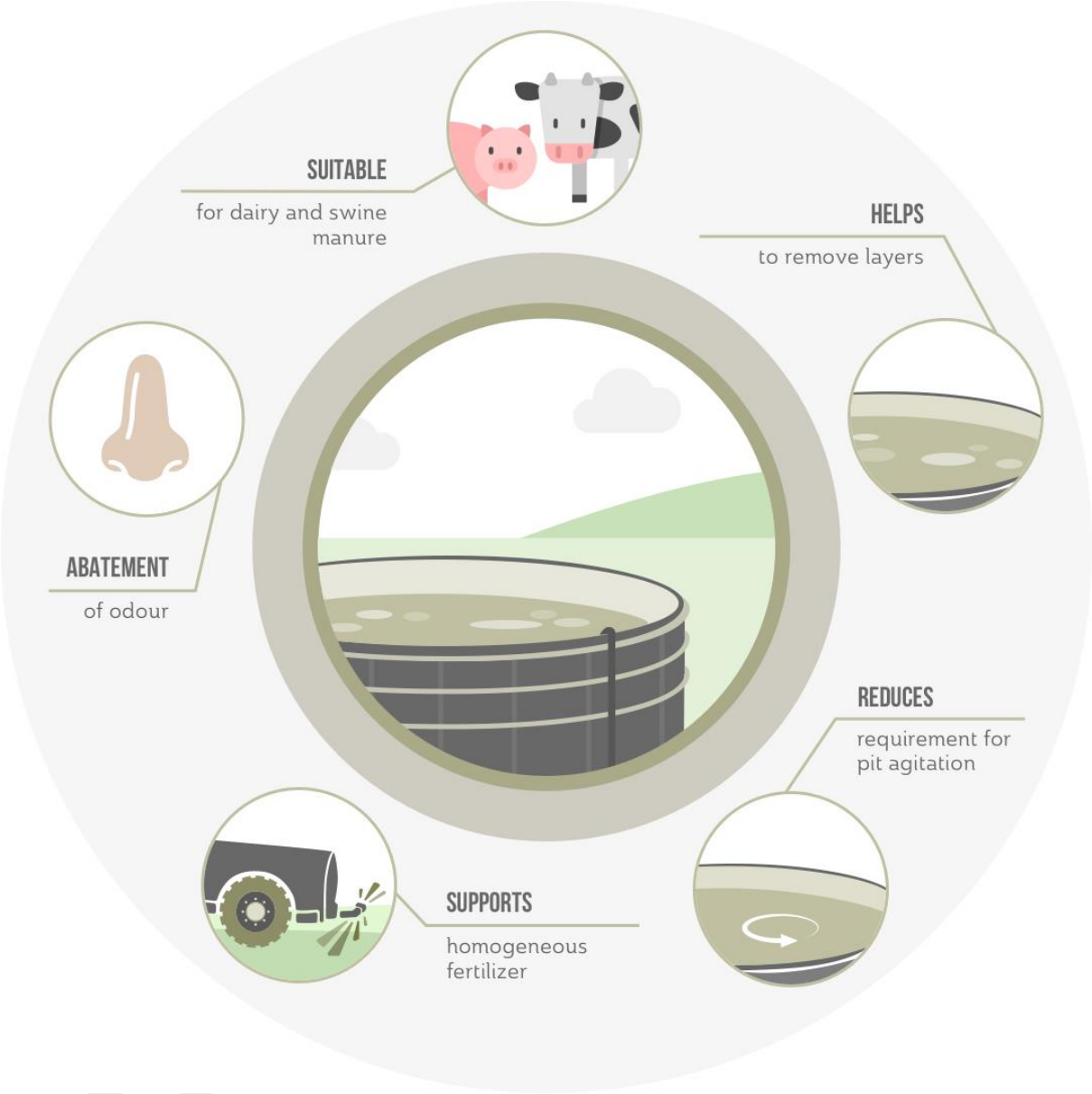
Mode of action



Product-specific modes of action can be found in the “Products / Mode of Action” section on PIN (Penergetic Inside SharePoint).

Product data

Product types	Article no.	Notes
penergetic g for cattle slurry	2000	• More homogeneous slurry and less odor • Reduced agitator costs
penergetic g for cattle slurry TS	2010	• More homogeneous slurry • For slurry with a high proportion of straw
penergetic g for pig slurry	2200	• More homogeneous slurry and less odor • Reduced energy costs
penergetic g for pig slurry TS	2210	• More homogeneous slurry and less odor • Reduced agitator costs • For slurry with a high proportion of straw
penergetic g for biogas	2800	• Anaerobic stimulation of microorganisms • Higher gas production

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Carrier material

Dry carrier material

	Carrier material	Packaging format		Shelf life
	Calcium carbonate	Bucket	3 kg / 12 kg	5 years
		Bag	10 kg / 25 kg	

Liquid carrier material

	Molasses	Can	2.5 l / 10 l / 600 l	18 months

The different carrier materials have additional properties. Bentonite is a clay mineral with a lamellar structure. Sikron has a crystalline structure and remains suspended for longer. Molasses dissolves completely and, as a sugar-like substance, can be absorbed by the roots/plants immediately. Molasses and calcium carbonate can always be mixed and applied together.

Additional information on the carrier materials and the safety data sheet (SDS), composition and production processes can be found in the “Technical Documentation” section on PIN (Penergetic Inside SharePoint).

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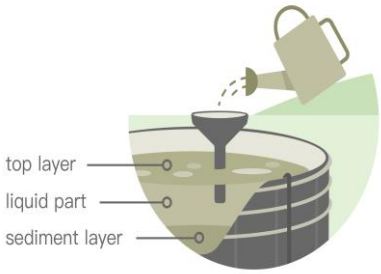
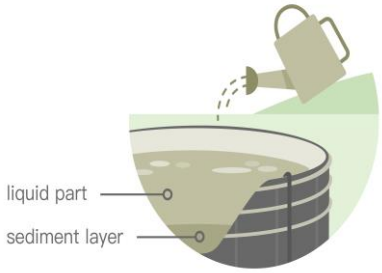
Application

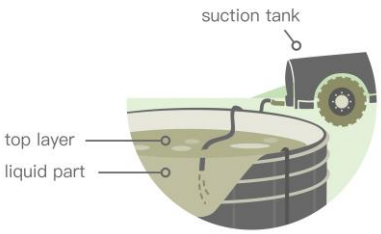
Penergetic International AG recommends the following methods of application.

penergetic g can be combined with other products. However, the manufacturers' instructions for individual products must be observed.

- **For cleanout channels without floating layer**, mix penergetic g with water in a watering can and pour evenly over the surface. Pour 2/3 of the recommended amount in at the head of the channel.
- **In a slurry container or a lagoon,** pour penergetic g over the rotating agitator. If no agitator is installed, puncture the floating layer with a suction hose and introduce the penergetic g / water mixture through the hosepipe.







- Pump a sufficient amount of slurry from the tank or lagoon using the suction tank, mix in penergetic g and pump the slurry back. For large slurry stores, repeat the process at different points.
- For underground pits and cleanout channels, pre-mix penergetic g with water in a watering can, and pour evenly over the empty channel or pit. Repeat application after channel or pit is emptied.
- Do not mix with oily substances.
- A combined application of the product in dry and liquid form is possible.
- The use of sanitizing / veterinary products etc. may affect the efficacy of penergetic g.
- If the manure contains a large amount of straw, penergetic g TS should be used.
- Do not use penergetic g in biogas plants since it promotes aerobic processes. The specialized product penergetic g for biogas is to be used for biogas plants.

LSU conversion for penergetic g dosage

The doses for penergetic g in animal housing are calculated by LSU (livestock unit). Depending on animal species and age, the factor changes and the dosage needs to be recalculated. The following conversion key is used:

Species	Value
Young calves, less than 1 year old	0.3
Young calves, 1 -2 years old	0.7
Young calves, more than 2 years old	1.0
Cattle	1.0
Piglets up to 25 kg	0.02
Pigs up to 40 kg	0.06
Fattening pigs over 40 kg	0.2
(Mother) sows	0.4
Laying hens	0.02
Domestic ducks, turkeys and geese	0.04

Detailed application and dosage instructions can be found in the “Products / Instructions” section on PIN (Penergetic Inside SharePoint).

Storage

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

Disposal

- Empty containers can be disposed of in the regular waste or left at PE or PP recycling points.

Certification

- Penergetic International AG is ISO 9001:2015 certified.
- penergetic g is listed on the FIBL inputs list for organic agriculture in Switzerland.
- A list of all current certifications can be found in the “Technical Documentation / Certificates” section on PIN (Penergetic Inside SharePoint).

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