



penergetic 
The Future of Agriculture™

Optimal Liquid Manure Treatment

penergetic  **g**

- Eliminates unpleasant ammonia and sulphur odours
- Controls crust and/or sediment layer formation
- Causes slurry to become homogenous
- Addresses insects and manure-borne pathogens
- Better for soil & crops while protecting groundwater

Applications:

- in-barn effluent troughs
- slurry tanks and lagoons
- underground storage pits





Slurry Activator

“Converting a problematic waste product into a valuable organic fertilizer.”



BENEFITS

- Optimizes slurry and liquid manure
- Stimulates the more complete breakdown of slurry by decomposition (aerobic process), instead of the more common and less desirable putrefaction & decay (anaerobic process)
- Overcomes the emission of malodorous gases, including hydrogen sulphide, ammonia & (odourless) methane gas
- Mitigates blocked effluent channels and formation of floating layers & solidified sedimentation layers
- Produces homogeneous and free flowing slurry
- Less need for stirring or aeration of stored slurry
- Reduces the occurrence of harmful insect and insect larvae
- Overcomes plant scorching during field application
- Reduces requirements for fertilizer and farm chemicals
- Prevents the loss of ammonium nitrogen (a valuable plant nutrient) from slurry
- Optimizes manuring effect which activates the soil and contributes to plant nourishment
- Creates valuable organic fertilizer facilitating more balanced delivery of nutrients to plants and soil
- No chemical ingredients, no heavy capital cost and reduced energy consumption
- Environmentally friendly and ecologically balanced (OMRI listed)

PRODUCT FORMS

✱ Penergetic g for slurry and liquid manure ✱ Penergetic g for pig slurry*

* Since pig slurry sometimes responds more slowly to the application of penergetic g for slurry and liquid manure, special action properties (information) have been incorporated into penergetic g for pig slurry to accelerate the process.



MODE OF ACTION

Penergetic is an "information transfer technology" which uses a proprietary process to infuse information from oxygen and minerals to the transfer medium. This information activates the aerobic microorganisms, stops the putrefaction process and stimulates the beneficial decomposition process. In the case of slurry with a very thick floating layer or sedimentation layer, the conversion process can be accelerated by initially applying penergetic g for pig slurry.

RECOMMENDED DOSAGES

Initial use: For every 100 cubic metres of slurry, mix 1.0 to 2.0 kg of penergetic g with plenty of water and pour into underground pit, slurry tank/lagoon and/or effluent channels. For difficult situations or first time use opt for 2.0 kg dose.

* For volumes exceeding 100 m³ dosages may be reduced. Consult supplier for more details.

Each subsequent application: Add 5 g per livestock unit (LSU)** weekly or 1 kg for every 100 cubic metres of additional slurry or liquid manure in effluent channels or underground pit. Note: at start up opt for 10 g per LSU/wk for several weeks.

** Contact distributor for details on LSU equivalents, e.g. cow = 1 LSU; cow 1-2 years = 0.7 LSU; sow = 0.4 LSU

RECOMMENDED METHOD OF APPLICATION

a. In effluent channels *without* a floating layer

Mix penergetic g with plenty of water in a watering can and pour evenly over the channel. Better results may be achieved by pouring 2/3 of the recommended dosage at the head of the channel.

b. In effluent channels *with* a floating layer

Poke two holes through the floating layer for each square metre of crust and pour the mixture of penergetic g and water through these holes into the liquid layer of the slurry.

c. In a slurry tank or lagoon

Pour the penergetic g/water mixture over the stirring mechanism while it is in operation. If no stirring mechanism is available, puncture the floating layer with a suction hose and introduce the penergetic g/water mixture through the hose. Pump sufficient slurry out of the tank or lagoon to fill the suction tank then pump it back into the slurry tank/lagoon. This procedure should be repeated at several points when large slurry tanks or lagoons are involved.

d. In underground pits and stall cleanout channels

Mix penergetic g with plenty of water in a watering can and pour it evenly over the empty pit or channel. Repeat this procedure each time the channel or pit is drained.

When penergetic-g begins to work

Once the reaction has been initiated, it is sufficient to apply penergetic g mixed with plenty of water through the gaps, etc. This must be carried out regularly, and after 14 days at the latest.



