

**penergetic**   
The Future of Agriculture™

## **Soil Activator - build better humus**

**penergetic**  **k**

- promotes healthy fertile soil
- stabilizes the decomposition process
- strengthens the soil food web
- reduces need for fertilizer and farm chemicals

Penergetic k is a soil additive that accelerates the decomposition process of field residue, manure and compost and strengthens nutrient recycling & disease suppression through the rhizosphere.

Penergetic k works with the biological processes in nature to stimulate the microorganisms in the soil.



## Penergetic k primary applications include:

- composting of in-field crop residue and field mulch
- soil preparation prior to planting
- aerobic breakdown of manure and compost
- improving barn/stable conditions

## BENEFITS

### A) Soil Treatment

- Conditions the soil to support the development of healthy plants
- Promotes better root growth and increased root exploration capacity
- Nurtures the soil food web and stimulates the activity of soil micro-organisms
- Increases soil's water absorption capacity and plant resistance to drought
- Optimizes the effectiveness of fertilization and thereby reduces fertilizer consumption
- Strengthens plant defenses against diseases and pests
- Reduces the need for pesticides and fungicides
- Increases crop yield/acre, production per plant and plant consistency
- Suitable for organic farming (OMRI listed)

\* ***Optimal benefits achieved when used in combination with penergetic p.***

### B) Composting

- Activates accelerated composting by an aerobic process
- Suitable for composting solid manure and plant matter
- Reduces insect pest problems and odours associated with composting
- Produces more homogeneously consistent compost mix
- Limits loss of nutrients (e.g. nitrogen) during composting process
- Proven and cost effective approach to composting
- By supporting more thorough breakdown of manure, prevents nutrient overload on fields

### C) Barns and Stables

- Reduces flies and odours in livestock stalls
- Helps control odours and contagion of disease in poultry barns
- Starts composting process in soiled livestock bedding / poultry litter



## PRODUCT CLASSIFICATION

Penergetic is an “information transfer technology” which uses a proprietary process to infuse information from essential minerals, herbs and other elements vital to soil health, composting and root growth into a transfer medium.

**TRANSFER MEDIUM (three forms):** Calcium Carbonate, Bentonite or Molasses

## APPLICATION

### A) Soil Treatment / Field Application

- Can be combined with other applications (e.g. fertilizing, herbicides, etc.)
- Alternatively, can be mixed with slurry (should be mixed in on same day spraying occurs)
- Dry application can be done with calcium carbonate
- Spray application is best with Penergetic k (bentonite) as better particle suspension
- Best applied after previous crop harvested or at least 14 days prior to planting

**Note:** before putting penergetic k in the sprayer, pre-mix it in a bucket or container to ensure better homogeneity. Product can be applied at the same time as herbicides or insecticides.

Rate of Application (based on one spray application per crop):

Cereal Crops/Corn/Soybeans	100 grams / acre
Oil Seed Crops (e.g. canola, flax)	100 grams / acre
Pulse (lentils, beans, peas)	100 -120 grams / acre
Vegetables	240 grams / acre

≈ For best results use also use Penergetic p on crop ≈

### B) In Compost and Solid Manure

40 grams of penergetic k per m<sup>3</sup> of manure or compost.

**Dry:** Premix penergetic k in rock meal, sawdust or similar substances. This enables uniform and accurate application.

**Wet:** Stir penergetic k into water and leave for a while. Apply evenly with a watering can.

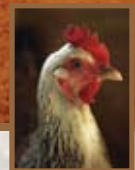
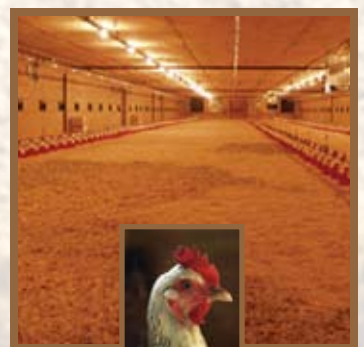
Apply penergetic k evenly to the compost layers. When existing heaps are no longer to be turned, poke several holes into the heap and pour Penergetic k into these holes.

Penergetic k can also be applied while turning the compost.

### C) In Barn and Stable

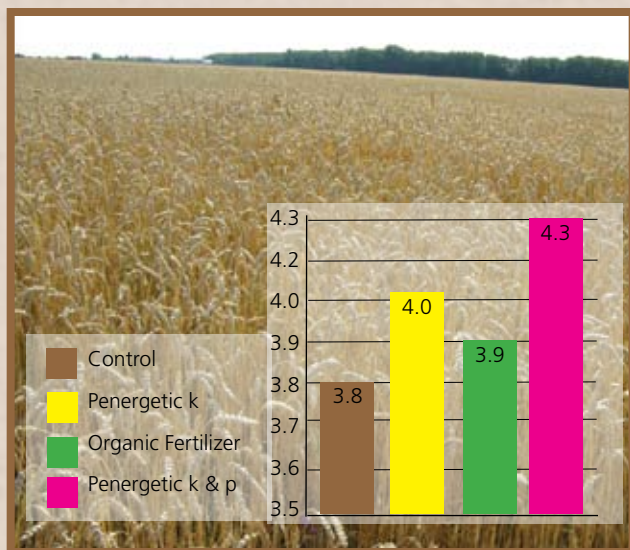
Apply penergetic k (3 g/m<sup>2</sup>) to the stable floor after mucking out. Repeat this procedure each time after littering down.

In poultry barns spray Penergetic k (3g/m<sup>2</sup>) on litter and walls prior to introducing broilers.

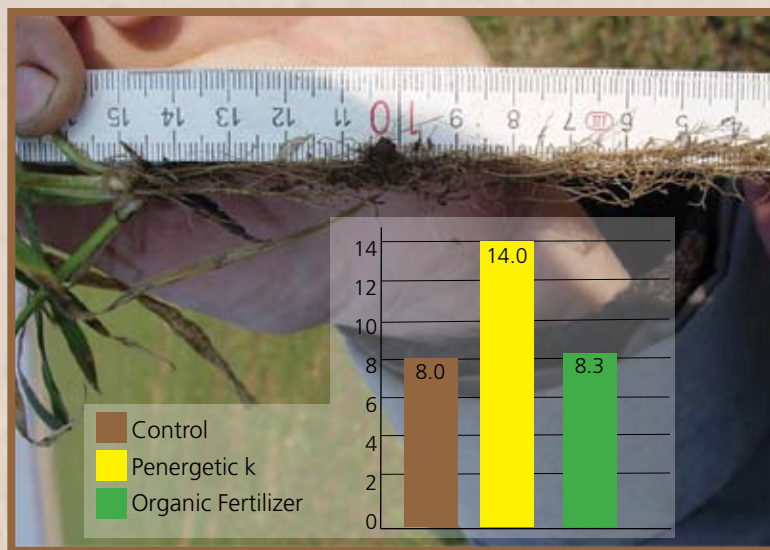


# FIELD RESULTS - Winter wheat

## Productivity (in tonnes/ha)



## Length of Roots Comparison (in cm)



## TEST RESULTS (bushels/acre)

Wheat	Conventional	Penergetic p	Compost with Penergetic k & Penergetic p
Performance	22.3	37.1	66.8

Source: INIA (Instituto Nacional de Investigaciones Agropecuarias), Uruguay

## FIELD RESULTS - SOY BEANS (note difference in height and consistency)



## COMPOSTING



For further information contact:

1-888-737-0907

**PENERGETIC CANADA**  
info@penergetic.ca

www.penergetic.ca