

TRAINING MATERIAL

Title:

Organic soil improver from calves manure by "Geamix" separation at source (ID:595)

Training:

What is the product?

The urine is produced by separation at source of solid manure and urine. It is a liquid organic fertilizer.

Who is the vendor of the product?

Geamix is the vendors name of calf breeder Stefan Thelosen in the Netherlands.

The Thelosen family is building a new stable for veal calves. The aim is to achieve emission reduction by separation at the source and also to develop high-quality manure streams that are valued regionally as a substitute for chemical fertilizer and dry manure pellets (circular agriculture).

Which are the advantages of the product?

- Natural product
- High organic matter content
- High C/N ratio
- Contains natural trace elements
- Hygienic, free from pathogens

Which are the problems addressed?

In order to bring considerable quantities of nutritional elements, it is necessary to transport high volumes of the product, taking note of the fact that it is characterized by a low concentration mostly of P in comparison with mineral fertilizer.

Which equipment and methods can be used to apply the product?

The product can be applied before sowing or planting of the crops with the same machines which are now being used for spreading solid manure. The fertilizer can be used at the cost of approximately €30/ton ex works. The product can be pelletized for easier handling and spreading (optional).



Which is the nutrient content of the product?

- Solid organic soil improver
- Dry matter: 818 g/kg
- Organic matter: 535 g/kg
- N: 13 g/kg
- P₂O₅: 9,4 g/kg
- K₂O: 8,2 g/kg
- C/N: 23

Organic soil improver is a natural product. Agronomic values may vary slightly. The average values were calculated based on various analyses.

How to use the product?

The product can be applied in open field cultivation. Recommended crops are: grassland, arable crops, horticulture. Application doses depend on crop application rates. Currently max 170 kg N/ha as livestock manure (230-250 kg N/ha for derogation farms in NL).

Which are the authority permits and in which EU countries?

The registration as processed manure in conformity of EU Regulation 1069/2009 is pending. The organic soil improver meets the CE-criteria from EU Regulation 2019/1009 for PFC3A.

How much does it cost?

The fertilizer can be used at the cost of approximately €30/ton ex works. The product can be pelletized for easier handling and spreading (optional).



For more information: https://nutriman.net/farmer-platform/product/id_595