

TRAINING MATERIAL

Title:

Mineral concentrate from pig/cattle slurry using belt press sieve and reverse osmosis processing (ID:520)

Training:

What is the product?

Mineral concentrate is an organic fertiliser produced from pig/cattle liquid manure fraction after reverse osmosis.

Who is the vendor of the product?

Vlako BV (<http://www.vlako.nl/>) is a manure processing company in the Netherlands.

Short presentation of the vendor:

Vlako processes approximately 135.000 m³/year slurry from pigs, cattle and mink into a pasteurized solid fraction, mineral concentrate and clean water.

Which are the advantages of the product and the problems addressed?

- Natural product from organic source.
- Low phosphate content.
- Contains natural trace elements.
- Low heavy metal contents (Cu: <0,1 ppm; Zn: 0,14 ppm).
- Less leaching of nutrients compared to unprocessed manure.
- Closing the agricultural cycle by replacing chemical fertilisers.
- Saves money compared to the use of chemical fertilisers.
- Local produced for local farmers.

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 slurry or liquid manure. During the cultivation of the crops the product can be applied with precision fertilising equipment. The use of low emission application techniques is compulsory to prevent ammonia volatilization.

Which is the nutrient content of the product?

- N: 6,5 kg/ton
- P₂O₅: 0,1 kg/ton
- K₂O: 7,5 kg/ton
- MgO: 0,5 kg/ton
- S: 3,2 kg/ton
- EC: 37 mS/cm

Due to the organic origin of the fertilizer, nutrient content may vary.

How to use the product?

The mineral concentrate can be used in grass fields, silage maize, potatoes and vegetables.

Which are the authority permits and in which EU countries?

The product is allowed as pilot RENURE fertilizer in NL which means that application is no longer defined as livestock manure in the Nitrates Directive. The production plant is registered in accordance with EC/1069/2009 with registration number NL-219144.

How much does it cost?

The product price varies during the season and is approximately between 0-5€ per ton ex works.



For more information: https://nutriman.net/farmer-platform/product/id_520