

TRAINING MATERIAL

Title:

Mineral concentrate from pig slurry using belt press sieve and reverse osmosis processing (ID:593)

Training:

What is the product?

The mineral concentrates is produced from pig manure, using a belt sieve press and reverse osmosis.

Who is the vendor of the product?

Maatschap Verhees is a pig farm and manure processing company in the Netherlands.

Short presentation of the vendor:

Maatschap Verhees is a pig farm who processes its own pig manure. For the sales of the manure products they cooperate with 3 other pig manure processors with the same process and products. A contractor/distributor is taking care of the application on the fields of the customers.

Which are the advantages of the product?

- Saves costs for more expensive chemical fertilizers
- Increases crop yield
- Low carbon footprint by natural nutrient cycle
- Allowed as pilot RENURE fertilizer in NL
- Also suitable for 'derogation farms' in NL

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?

This fertilizer can be applied using conventional injection equipment for grassland or arable land. An ideal product to apply with drag hose equipment on grain or grassland. The use of low emission application techniques is compulsory to prevent ammonia volatilization.

Which is the nutrient content of the product?

- N: 5,0 – 6,5 kg/ton
- P₂O₅: 0,0 – 0,1 kg/ton
- K₂O: 6,0 – 9,0 kg/ton
- Due to the organic origin of the fertilizer, nutrient content may vary

How to use the product?

The product can be applied in open field cultivation. Recommended crops are: grassland, potatoes, maize, grain, arable crops, horticulture. Application doses depend on crop application rates. The product has a pilot approval pending the official acknowledgement by the EC. Therefore application is not limited to max 170 kg N/ha. The mineral concentrate can replace the conventionally used chemical fertilizers.

Which are the authority permits and in which EU countries?

The urine does not meet the CE-criteria from Regulation EU 2019/1009.

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.

How much does it cost?

Product cost is approximately €0 per ton.



For more information: https://nutriman.net/farmer-platform/product/id_593