

## Mineral concentrate from pig slurry using belt press sieve and reverse osmosis processing

*Keywords: • Mineral concentrate • Liquid fertilizer • RENURE • Nitrogen • Potassium*

### Key facts:

- **Product Category:** Mineral concentrate from livestock manure
- **Input material:** raw pig manure
- **General appearance:** liquid
- **Nutrient Content (N-P-K):** N 5,5 – P<sub>2</sub>O<sub>5</sub> 0,1 – K<sub>2</sub>O 7,5 kg/ton
- **Product market status:** available on the market
- **Limitation of application:** Pilot RENURE fertilizer in NL, depends on crop but not limited to max 170 kg N/ha
- **MS Authority permit availability:**
- **Geographical area:** The Netherlands
- **Product price:** approximately €0 per ton



### Summary:

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

The product contains urea and ammonium nitrogen. Average content varies due to the natural origin of the product: N 5,0-6,5; P<sub>2</sub>O<sub>5</sub> 0,0-0,1; K<sub>2</sub>O 6,0-9,0 kg/ton. 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. Product cost is approximately €0 per ton.

The product is widely used by dairy farmers to replace chemical nitrogen fertilizers.

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. This is laid down in the Dutch fertilizer act (Meststoffenwet). 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.

### How to use:

- **Type of farming:** conventional
- **Cultivation methods:** open field
- **Recommended crops:** grassland, potatoes, maize, grain, arable crops, horticulture
- **Application doses:** Pilot RENURE fertilizer in NL, depends on crop but not limited to max 170 kg N/ha

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### Key product features:

- N: 5,0 – 6,5 kg/ton
- P<sub>2</sub>O<sub>5</sub>: 0,0 – 0,1 kg/ton
- K<sub>2</sub>O: 6,0 – 9,0 kg/ton
- Due to the organic origin of the fertilizer, nutrient content may vary

### Key product benefits:

- 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

### Competitive position and advantages:

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 mineral concentrate can replace the conventionally used chemical fertilizers.