

TECHNOLOGY FOR P RECOVERY AS PK FERTILIZER FROM THE ASH OF POULTRY MANURE WITH "BMC MOERDIJK" THERMOCHEMICAL PROCESS



Keywords: • Poultry manure • thermal conversion • PK Fertilizer

Key facts:

- **Technology category:** Thermochemical nutrient recovery
- **Input material:**
 - Poultry manure: 430.000 t/year
- **Output material: inorganic PK fertiliser**
11 % P₂O₅; 12 % K₂O, 20 % CaO, 7 % SO₃, 5 % MgO
- **Capacity:** 57.000 t/year
- **Focusing geographical areas:** Fr, NL, EU28
- **Technology status:** TRL9
- **EC/MS Authority permits:** -



Summary of the technology:

BMC Moerdijk burns poultry litter and converts this into electricity and a valuable PK fertiliser and has proven to offer poultry farmers a reliable solution for their poultry litter all year round. Every year BMC Moerdijk incinerates about 430.000 tonnes poultry litter and produces 292.000 MWh gross and 57.000 tonnes PK fertiliser.

The PK fertiliser is derived from hydrated ash of incinerated poultry manure. Poultry manure is obtained from poultry farms in the Netherlands meeting EU compliances for animal production. Main nutrients are phosphorus and potassium. The fertiliser has a neutralizing value due to the presence of hydrated burnt lime and the fertiliser contains secondary and micro nutrients.

Competitive position and advantages:

- The process is a robust technology to convert poultry manure to a plant available phosphorus and potassium fertilizer
- The value is well tested in pot trials and under real farming conditions
 - The product contains useful amounts of secondary nutrients and trace elements
- The product has a low content of contaminants, e.g. heavy metals (Cd, As, Pb), no organic compounds and is free of pathogens

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