

PK FERTILIZER FROM THE ASH OF POULTRY MANURE WITH "BMC MOERDIJK" THERMOCHEMICAL PROCESS



Keywords: Ash • Thermal conversion • mineral fertilizer • high plant available PK

Key facts:

- **Product Category:** Inorganic fertilizer
- **Input material:** Ash from poultry manure
- **General appearance:** After the process, it's a powder which could be milled and pelletized/granulated in further preparation steps if desired
- **Nutrient Content (N-P-K %):** 0% N – 10% P₂O₅ – 12% K₂O– 20 % CaO
7 % SO₃, 5 % MgO
- **Product status:** Fully operational since 2008
- **Limitation of application:-**
- **Permit availability:** Recommendation to authorize recovered fertilizers (e.g. from biomass ashes) for organic farming by STRUBIAS workgroup. (as it is in 01/2020). National authorization in e.g. GB, Fr, B, NL
- **Geographical area:** B, NL, FR, GB, DE, EU 28
- **Price range:-**



Summary

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. The material is produced from the ash of incinerated poultry manure and water. 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.

How to use:

- **Type of farming:** conventional.
- **Cultivation methods:** arable, -
- **Recommended crops:** all
- **Application doses/ha:** Depending on the P,K-nutrient needs of the crop and the P,K-nutrient status of the soil.

Contact

Name: Gerd-Jan de Leeuw

Company: BMC Moerdijk BV

Web: <https://www.bmcmoerdijk.nl/>

e-mail: sales@bmcmoerdijk.nl





PK FERTILIZER FROM THE ASH OF POULTRY MANURE WITH "BMC MOERDIJK" THERMOCHEMICAL PROCESS

Key product features:

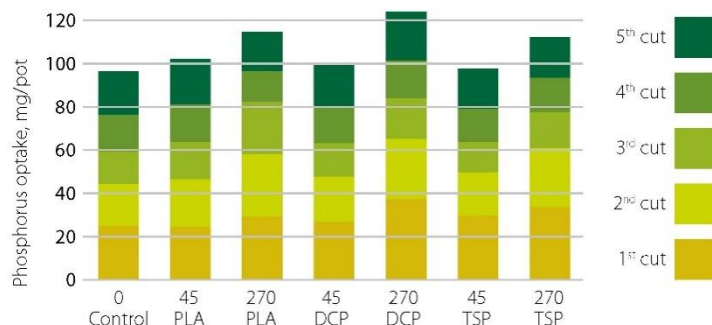
- Thermal conversion of poultry manure to a plant available PK fertilizer
- Phosphorus and potassium fertilizer
- Efficacy tested in pot trails and field experiments under real farming conditions
- The product contains useful amounts of secondary nutrients and trace elements
- The product has a low content of contaminants, e.g. heavy metals (Cd, As, Pb), no organic compounds and is free of pathogens

Key product benefits:

- See product features

Total uptake of phosphorus

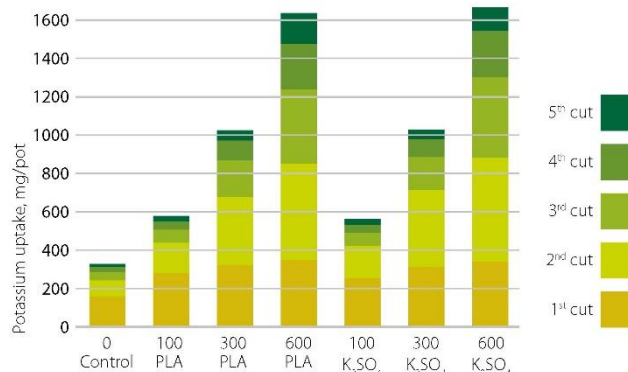
per fertilizer treatment of rye grass (*Lolium perenne* L.)
per cut for application rates 0, 45 and 270 kg P_2O_5 /ha.



Uptake from phosphorus of poultry litter ash (PLA) in comparison to mineral P-fertilizer
(Pot trial University Wageningen/Alterra)

Total uptake of potassium

per fertilizer treatment of rye grass (*Lolium perenne* L.)
per cut for application rates 0, 100, 300 and 600 kg K_2O /ha.



Uptake from potassium of poultry litter ash (PLA) in comparison to mineral Potassium-fertilizer
(Pot trial University Wageningen/Alterra)

Competitive position and advantages:

- The process is a robust technology to convert poultry manure to a plant available phosphorus and potassium fertilizer
- Fully operational since 2008