

#### Summary advantages Orgapower HN-compost:

- A good and clean high quality product
- High in active organic substance
- High in nutrients, especially  $P_2O_5$  and  $MgO$
- Easy to apply in both agriculture and horticulture

#### And results in:

- High carbon storage in the soil
- Increased soil fertility and health
- Increased water retention capacity
- Easier arable land

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# High Nutrients Compost for the Polish Agricultural and Horticultural markets



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### High Nutrients compost for the Polish market.

Orgapower produces a special High-Nutrients (HN) compost in the Netherlands which perfectly matches the soil needs in Poland. This HN-compost is very rich in nutrients for the agriculture and horticulture markets.

### What is HN-compost?

This special HN-product is the best compost product for a healthy soil in the Polish markets. HN-compost contains a high percentage of organic matter combined with very high Nitrogen (N), Phosphate ( $P_2O_5$ ) values. Combined with other nutrient values and trace elements, all necessary for a healthy and fertile soil. An independent valuation confirmed the agronomic values of this product compared to other products.

<b>HN-compost</b>	<b>Organic substance</b>	<b>N</b>	<b><math>P_2O_5</math></b>	<b><math>K_2O</math></b>	<b>MgO</b>
Content (kg/ton)	267	11,9	20,3	7,7	6
Active content (kg/ton)	242	1,5	11,2	6,5	2,4

Compared to other compost or manure products, HN-compost contains two - four times the amount of organic substance and nutrients per ton.

### The Polish Organic matter and soil conditions<sup>1</sup>

The agricultural area of Poland is over 14 million hectares. The agricultural area of Poland is characterized by a limited availability of water resources, high proportion of light soils characterized by sandiness and low phosphate availability. These poorer soil conditions combined with bad climatic conditions provide lower soil productivity compared to the European average.

The soil's organic matter content in Polish agricultural land ranges from 0.5 to 10% and the average content is 2.2%. Over 60% of the mineral soil contains less than 2% of humus; additionally there is also a significant share of soils containing less than 1.5% of humus.



<sup>1</sup> 'Manure Export Manual' by the Embassy of the Kingdom of the Netherlands, Warschau, April 2017

### Agricultural characteristics of High-Nutrients compost;

- Because of a high dry matter value the weight is relatively low. Per truck load we can transport much more organic material compared to manure or champost (45 M<sup>3</sup> = 25 ton).
- The product is sieved/screened with a 0-10 mm sieve which results in a very clean product. We guarantee compost according to our Dutch quality standard (keurcompost), with less than 0.1% glass on production basis and less than 0.1% plastic. Regular analysis show even much better results than these quality requirements.



### Independent valuation

Agro-economic Advisory firm Lumbricus BV has made economic valuation of Orgapower HN-compost<sup>2</sup> based on the content of effective organic substance in the product and the contents of active macro nutrients like nitrogen, phosphate, potassium and magnesium.

<b>Active content in 1.000 kg HN-compost</b>	<b>Nutrient value per kg</b>	<b>Calculated value per ton</b>
<b>242 kg</b>	€ 0,20/kg eos	€ 48,40
<b>1,5 kg N</b>	€ 0,78/kg N	€ 1,17
<b>11,2 kg <math>P_2O_5</math></b>	€ 0,80/kg $P_2O_5$	€ 8,96
<b>6,5 kg <math>K_2O</math></b>	€ 0,61/kg $K_2O$	€ 3,97
<b>2A kg MgO</b>	€ 1,12/kg MgO	€ 2,69
<b>Total agro-economic value</b>		<b>€ 65,19</b>

HN-compost: perfect for Polish Agriculture and Horticulture soils.

<sup>2</sup> 'Agro-economic valuation of HN compost', by Lumbricus Soil and Plant Growth Advisory, The Netherlands