



Horticulture and Specialist Growers

Nature and technology - hand in hand





Unique Product

Our high-efficiency **HumberPalmers** fertilisers are developed to maximise dry matter output and improve the quality and crop yield. Manufactured at our purpose built UK factory, HumberPalmers fertilisers comprise an organic base rich in humates.

The specialist granulation process of HumberPalmers fertilisers combines highly beneficial complex humates with mineral nutrients, and supports improved and even distribution, whilst a unique phasing ability enhances soil health and crop productivity.

Proven Research

Independent research confirms that our HumberPalmers fertilisers:

- **Out-perform** the best mineral fertilisers by up to **35%** in terms of increased dry matter yield.
- **Deliver 25%** higher take-up of applied nitrogen, phosphate and potash, compared with high quality mineral fertilisers.
- **Considerably** lowers soil and plant nitrate content.
 - **Imperative** when caring for the environment.
 - **Essential** under the Water Directive Rules.
- **Increase** trace element levels.

HumberPalmers offers the complete fertiliser solution, as we all strive to fully participate in expanding Government environmental targets for the years ahead.

The Company

HumberPalmers is part of PB Kent a leading manufacturer of specialist and technically advanced fertiliser products. PB Kent is a division of the Origin Enterprises Group, one of the major suppliers of fertiliser throughout the UK and Ireland. This combines large company stability, innovation and resources with local personal services from our team of Nationwide FACTS qualified advisors.

British Made

All **HumberPalmers** products are manufactured in the UK at our Immingham factory in North Lincolnshire, the most modern plant of its kind in Europe with its advanced granulation technology.



HumberPalmers Unique Organic Base

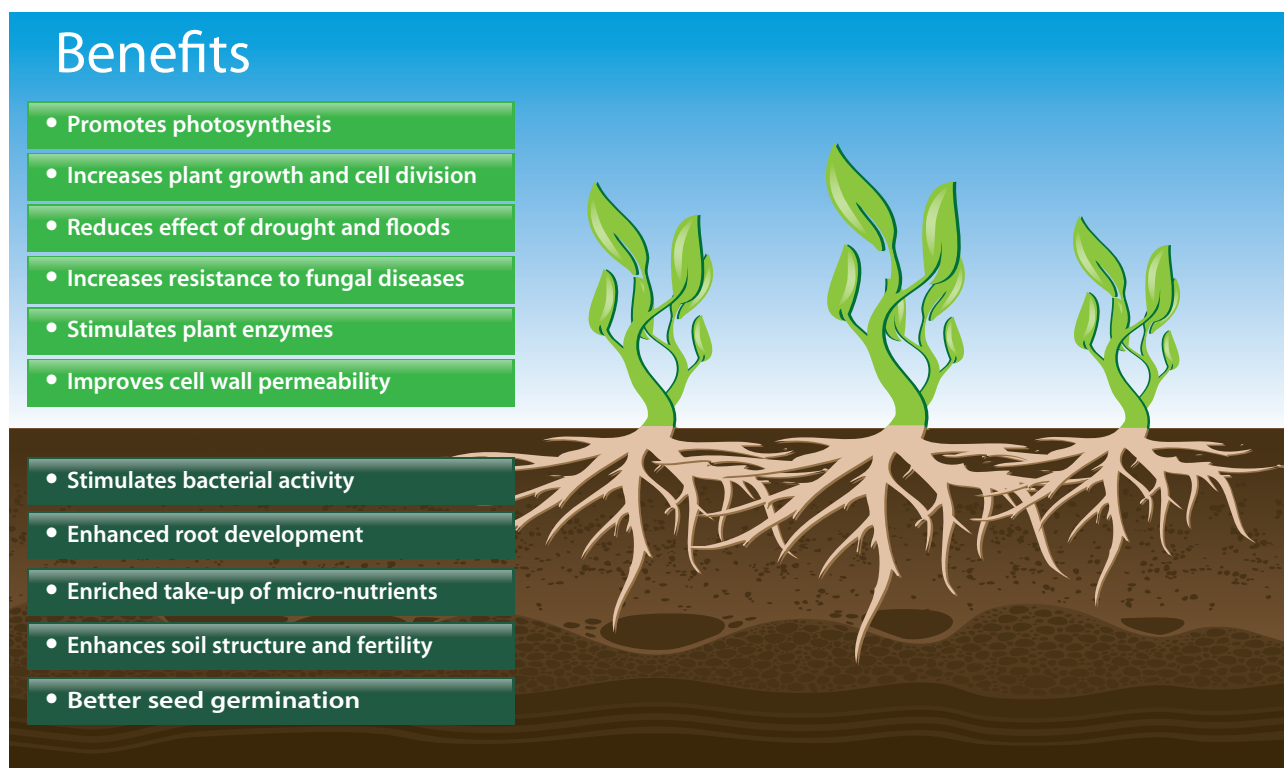
Derived from a rich source of naturally occurring matter, **HumberPalmers** unique organic base contains high levels of Humates, delivering excellent results for the enrichment of soil and plant.

What are Humates?

Humates are the purest form of natural organic matter known to man, and are one of the most complex substances on earth. These substances, formed from the biological and chemical breakdown of organic material over millions of years, contain a mixture of organic acids and include: humic acids, fulvic acids, macromolecules of amino acids, amino sugars and peptides.

How do Humates work?

Humates are the essential construction blocks of a well balanced soil, supporting the soil structure and well being of plants. They can directly contribute to the enhanced biological activity of soil through the support of beneficial microbes, and have the ability to free phosphates and other minerals locked up in the soil, making them available for root uptake.



Benefits

- Promotes photosynthesis
- Increases plant growth and cell division
- Reduces effect of drought and floods
- Increases resistance to fungal diseases
- Stimulates plant enzymes
- Improves cell wall permeability
- Stimulates bacterial activity
- Enhanced root development
- Enriched take-up of micro-nutrients
- Enhances soil structure and fertility
- Better seed germination

True Compound Fertilisers

All HumberPalmers fertilisers are manufactured as complete homogeneous granules. Each granule of fertiliser contains macro and micro nutrients together with humates, Sulphur and Trace Elements.

Trace Elements

All grades of **HumberPalmers** fertilisers contain a wide spectrum of available minerals and trace elements, benefiting soil and plants. These include: Calcium, Sodium, Zinc, Selenium, Copper, Cobalt, Manganese, Boron.

Sulphur

All grades of **HumberPalmers** fertilisers contain Sulphur, universally acknowledged as essential for amino acid production (cysteine and methionine). It is recognized as being the catalyst for improved uptake of applied nitrogen and potash, increasing true protein levels and reducing nitrate levels in crops and soil reserves.

Packaging

HumberPalmers fertiliser grades are available in 600kg top lift bags – some grades can be supplied in 25kg bags on pallets in one tonne units on request.

Soil Analysis

We offer a soil analysis service for customers to determine soil fertility as demanded by Farm Produce Assurance Schemes and Government Regulations. Contact your local **HumberPalmers** Representative for details.



Product Range

	Grade	Nitrogen N	Phosphate P	Potassium K	Magnesium MgO	Sulphur SO ₃	Trace Elements
No. 1	0-12-18+14SO ₃	-	●	●	-	●	●
No. 2	2-10-25+15SO ₃	●	●	●	-	●	●
No. 2A	2-7-35+8SO ₃	●	●	●	-	●	●
No. 3	3-15-15+15.5SO ₃	●	●	●	-	●	●
No. 8	9-4-10+5MgO-22.5SO ₃	●	●	●	●	●	●
No. 9	9-12-15+19SO ₃	●	●	●	-	●	●
No. 10	10-10-10+25.5SO ₃	●	●	●	-	●	●
No. 11	10-5-16+31.5SO ₃	●	●	●	-	●	●
No. 12	12-6-6+37SO ₃	●	●	●	-	●	●
No. 13	14-6-8+32.5SO ₃	●	●	●	-	●	●

Product Range

	Grade	Nitrogen N	Phosphate P	Potassium K	Magnesium MgO	Sulphur SO ₃	Trace Elements
No. 15	16-4-4+35SO ₃	●	●	●	-	●	●
No. 16	18-2-12+26SO ₃	●	●	●	-	●	●
No. 17A	18-4-4+1MgO+32.5SO ₃	●	●	●	●	●	●
No. 18	20-4-5+2MgO+26SO ₃	●	●	●	●	●	●
Top N	21-0-0+1MgO+32.5SO ₃	●	-	-	●	●	●
Nitragro	26-2-0+2MgO+30.5SO ₃	●	●	-	●	●	●
No. 6A	12-3-18S/P-33SO ₃ with Sulphate of Potash	Higher rate of Sulphate of potash for intensive production of protected and glasshouse fruit and vegetable crops.					
No. 11	10-5-16+31.5SO ₃ +B with Boron 10-5-16+2.4MgO-31.5SO ₃ +Mn plus magnesium & manganese 10-5-16+2.4MgO-31.5SO ₃ +Mn+B plus magnesium & manganese with Boron	For crops susceptible to deficiency of secondary elements.					
NITRIPAL	18-2-0+4MgO-34SO ₃ with additional trace elements	Field scale horticulture – top dressing. Protected vegetable and glasshouse crops.					



By Appointment to
Her Majesty The Queen
Manufacturer & Supplier
of HumberPalmers
Fertilisers PB Kent & Co.

HumberPalmers

High Efficiency Fertilisers

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