



# Grassland and Forage

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 yield of grasslands. 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.
- **Lower** soil and plant nitrate content considerably.
  - **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.

# HumberPalmers Protected Nitrogen

All compound grades manufactured with urea nitrogen either contain a registered urease inhibitor or have an option to include. Whether requiring a protected nitrogen fertiliser by preference or due to environmental regulations **HumberPalmers** have the options available.

Urea with NutriSphere-N®, a unique dual-action nitrogen protector minimising losses through volatilisation and nitrification. It is a urease inhibitor designed to protect yield, achieve quality and save money.

# What are the benefits?

## Plant

- Promotes photosynthesis
- Increases plant growth and cell division
- Reduces effect of drought
- Increases resistance to fungal diseases
- Stimulates plant enzymes
- Improves cell wall permeability
- Enhances root development

## Animal

- Improves palatability
- Improves grass quality
- Better plant mineral content
- Increases meat and milk from forage

## Soil

- Stimulates bacterial activity
- Enriches take-up of micro-nutrients
- Enhances soil structure and fertility
- Improves fertiliser efficiency
- Improves moisture retention

## Sodium

Additional Sodium to further improve grazing efficiency is contained within selected HumberPalmer's fertiliser grades.

## Trace Elements

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

## Sulphur

All grades of HumberPalmer's 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.

# Product Range

	Grade	Nitrogen N	Phosphate P	Potassium K	Magnesium MgO	Sulphur SO <sub>3</sub>	Sodium Na	Trace Elements	Protected Nitrogen
No. 3	3-15-15+15.5SO <sub>3</sub>	●	●	●	-	●	-	●	-
No. 13	14-6-8+32.5SO <sub>3</sub>	●	●	●	-	●	-	●	●
No. 16	18-2-12+26SO <sub>3</sub>	●	●	●	-	●	-	●	●
Stockman	17-4-5+22SO <sub>3</sub> +6Na	●	●	●	-	●	●	●	●
No. 17A	18-4-4+1MgO+32.5SO <sub>3</sub>	●	●	●	●	●	-	●	●
No. 18	20-4-5+2MgO+26SO <sub>3</sub>	●	●	●	●	●	-	●	●
Top N	21-0-0+1MgO+32.5SO <sub>3</sub>	●	-	-	●	●	-	●	●
Optigraze	21-0-0+1MgO+30SO <sub>3</sub> +8Na	●	-	-	●	●	●	●	●
Nitragro	26-2-0+2MgO+30.5SO <sub>3</sub>	●	●	-	●	●	-	●	●
Opti P	23-10-0+20SO <sub>3</sub>	●	●	-	-	●	-	●	●
Soil Boost	Soil conditioner containing a unique combination of ingredients to improve the structure of the soil and the uptake of the nutrients to the plants.								

Key: ● standard ● optional

## Ease of Use

The true complete granules of **HumberPalmer's** fertilisers ensure an even distribution of nutrients, whilst its unique phasing ability allows application to safely take place earlier in the season than conventional fertilisers, reducing losses of nutrient through leaching and volatilisation. The 2mm to 4mm granules can be efficiently applied by modern fertiliser spreaders up to a 24 metre spread.

## Packaging

**HumberPalmer's** 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 **HumberPalmer's** Representative for details.





# HumberPalmers

High Efficiency Fertilisers

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