



PAYNE

Crop Nutrition

OILSEED RAPE NUTRITION GUIDE

A smarter establishment strategy
for East Anglia



STRONG STARTS



BETTER ROOTS



HIGHER RETURNS



Establishment, starter nutrition,
spring support and season-long planning.

1 THE ESTABLISHMENT CHALLENGE

In East Anglia, OSR establishment can be tough.

Oilseed rape is one of the most rewarding break crops when it establishes well – but one of the most unforgiving when it gets off to a poor start.

The first six to eight weeks after drilling are critical. The crop needs to germinate evenly, build root length quickly, develop a strong taproot, produce enough leaf area before winter and survive pest, weather and moisture pressure. Nutrition cannot solve every establishment problem, but the right granular fertiliser strategy can give the crop the best possible start.

COMMON ESTABLISHMENT PROBLEMS:



DRY SEEDBEDS

Late summer and early autumn dry spells delay germination and limit root development.



PEST PRESSURE

Cabbage stem flea beetle, pigeons and slugs can set the crop back before winter.



POOR ROOTING

Compaction, cloddy seedbeds and high pH soils restrict root growth and nutrient uptake.



NUTRIENT LIMITATIONS

Lack of balanced nutrition, especially P, K, S and trace elements, leads to weak, slow-growing plants.



HIGH INPUT COSTS

Nitrogen and phosphate are expensive – every kg needs to work harder.



pH IMBALANCE

Soils that are too acidic or too alkaline can reduce nutrient availability, particularly phosphorus and trace elements, and slow early root growth.



“A weak start in autumn rarely gets fully compensated in spring.”

WHY A GOOD START MATTERS

- ✓ Stronger root system with better nutrient and moisture uptake
- ✓ More leaves before winter = higher energy capture and yield potential
- ✓ Better resilience to pests, frost and stress
- ✓ Improved return on every £ spent on fertiliser = Greater crop gross margin

GET ESTABLISHMENT RIGHT, AND YOU SET THE YIELD POTENTIAL FOR THE ENTIRE SEASON.

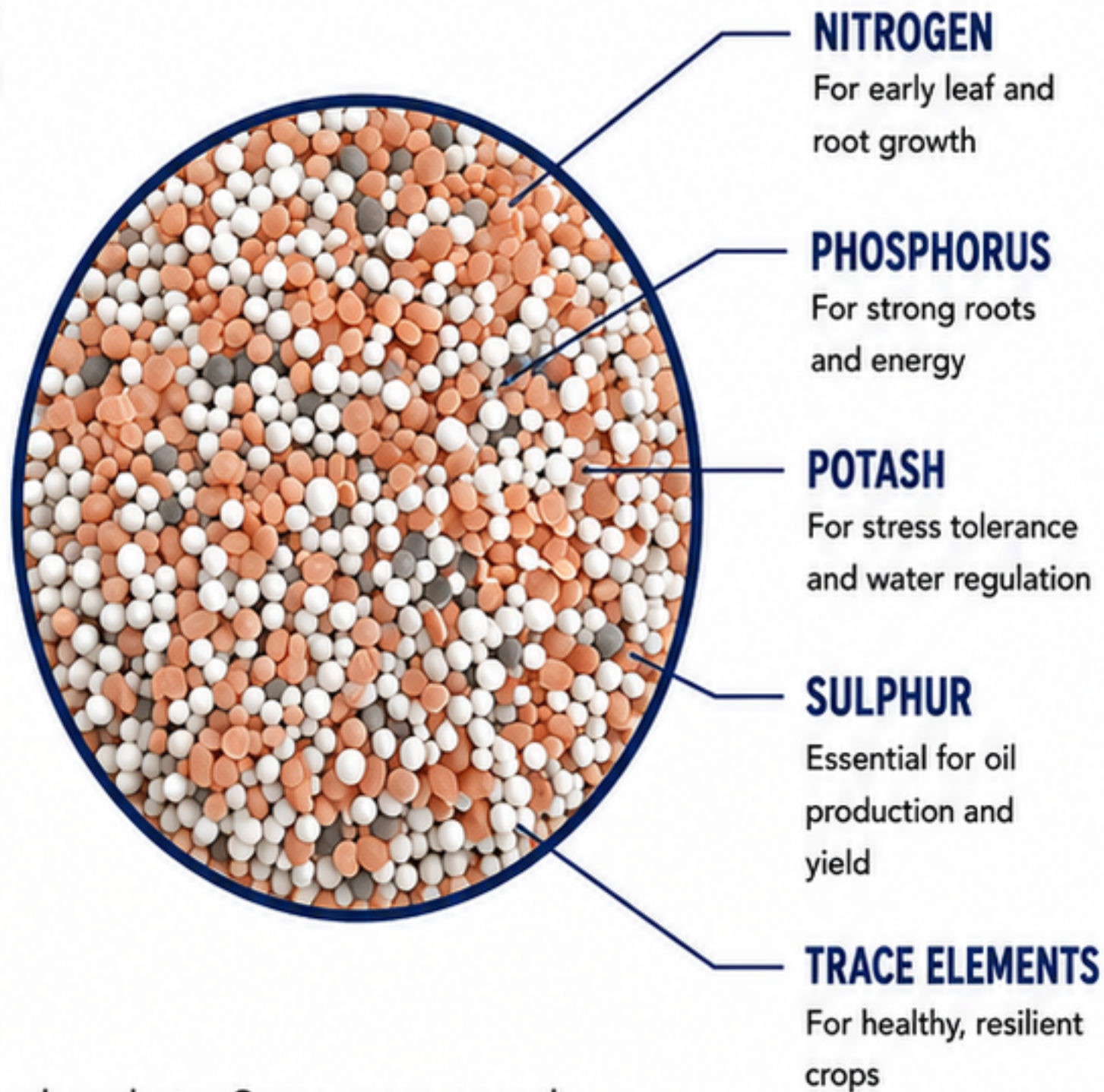
2 PAYNE CROP NUTRITION SOLUTIONS

BESPOKE FERTILISER BLENDS – DESIGNED FOR YOUR FIELDS

Every field is different. That's why we create bespoke granular fertiliser blends to match your soil, crop and yield goals – using the right source of raw materials.

WHAT MAKES OUR BLENDS DIFFERENT?

- ✓ Tailored N, P, K, S and trace elements for your exact needs
- ✓ Quality raw materials for maximum availability and plant uptake
- ✓ Correct granule size for even spreading and placement
- ✓ Cost-effective solutions that maximise return on investment



Every OSR field is different. Some fields need more phosphate. Some more potash. Some need sulphur planning. Some need a better or alternative source of phosphate. Some need a lower-cost, more moderate approach as soil indices are already adequate.

Use your soil P Index to decide

What is your soil Phosphate (P) Index?

P Index 0 - 1 Low or pH 8+

Apply higher P to build soil fertility and support rooting

Fully available Phosphate that won't lock-up + NKS

P Index 2 Medium

Apply maintenance P to sustain soil fertility

Use balanced NPKS, e.g. 14-23-14+10SO₃

P Index 3+ High

Maintain with low P additions on other nutrients

Use low or zero P mixes, e.g. 17-0-17+11.5SO₃



Strong start above ground...



...stronger roots below ground



...better prepared for the season

WHEN TO APPLY AT DRILLING

- ✓ Apply P near the seed for early root development
- ✓ Include K for stress tolerance on higher soils
- ✓ N at drilling can support early growth, but don't overdo it
- ✓ Match blend to soil tests and field history

MAKE THE MOST OF EXPENSIVE N & P

- ✓ Don't waste it. Place it. Balance it.
- ✓ Get it working for your crop from day one.
- ✓ Apply the right source of N & P to match your machinery and field conditions.

3 PAYNE CROP NUTRITION SOLUTIONS

BESPOKE BLENDS

FIELD-SPECIFIC DESIGNED AROUND YOUR SOIL

- ✓ Built around the field, crop and soil analysis.
- ✓ Matches N, P, K, S to actual crop requirements.
- ✓ Adjusted for pH and yield potential.
- ✓ Choose the right nutrient source, not just cheapest analysis.

BEST FOR:

Field-specific OSR starter fertiliser matched to soil indices, crop need and budget.

PHYSIOSTART

MICRO-GRANULAR STARTER FOR PRECISION PLACEMENT

- ✓ Concentrated micro-granule placed close to the seed.
- ✓ Supports rapid early root development.
- ✓ Improved phosphate availability.
- ✓ Designed for slower establishment conditions.
- ✓ Gives OSR the best chance to get away quickly.

BEST FOR:

Precision drilling with a microgranular applicator for fast early rooting from the seed zone.

ACTIV-N

TECHNOLOGY DRIVEN NITROGEN AND PHOSPHATE

- ✓ Combines N, P & S.
- ✓ Provides fully available nutrition no matter the soil pH.
- ✓ Supports early leaf growth and root development together.
- ✓ Perfect partner with K, S and Mg in targeted blends.
- ✓ Gets nutrition working early.

BEST FOR:

Fields needing early N + P to drive vigour, rooting and autumn biomass.

DAP

HIGH ANALYSIS PHOSPHATE WITH USEFUL NITROGEN

- ✓ Strong option where P demand is high.
- ✓ Supports early root growth and development.
- ✓ Cost-effective and widely understood.
- ✓ Useful where traditional phosphate approach is preferred.
- ✓ Is highly used in blended fertilisers as strong base.

BEST FOR:

Low P index fields or situations requiring a strong, cost-effective phosphate input at drilling.

FERTIACTYL

FOLIAR BIOSTIMULANT TO SUPPORT CROP RESILIENCE

- ✓ Support crops through stress periods.
- ✓ Useful in difficult growing conditions.
- ✓ Helps support rooting, nutrient uptake and crop recovery.
- ✓ Good follow-up after drilling.
- ✓ Adds value beyond fertiliser by helping the plant cope.

BEST FOR:

Post-emergence support where OSR is stressed, slow, uneven or needs root and leaf strength.

ZM-GROW

FOLIAR TRACE ELEMENT SUPPORT WITH A SUSTAINABLE STORY

- ✓ Where Manganese and Zinc are required early in crop life.
- ✓ Helps support crop health and photosynthesis.
- ✓ Strong sustainability story from recovered nutrient sources.
- ✓ Absorbed by fertiliser granules when applied at factory.

BEST FOR:

Add to granular fertilisers to provide Mn and Zn to emerging crops before foliar applications.

OSR STARTER FERTILISER DECISIONS

1. Do you have a recent soil test?

Yes - Check P & K indices
No - Soil test / advisor discussion

2. Is your P index low?

Yes - Moderate P / balanced NPKS
No - Stronger P product or blend

3. Does your drill have a micro-granular applicator?

Yes - Consider PhysioStart
No - Granular starter fertiliser





4. Looking at DAP-style straight N + P?

Consider - Activ-N
Use DAP - Only where it genuinely fits

PAYNE APPROACH: THE RIGHT PRODUCT IN THE RIGHT PLACE, IN THE RIGHT FORMAT AT THE RIGHT TIME.

4 SPRING NUTRITION & TRACE ELEMENTS

FEED THE CROP WHEN IT NEEDS IT

TIMING		WHAT TO APPLY & WHY
Late Feb - Early March (Green bud)		Sulphur (SO ₃ 30-50 kg/ha on mineral soils) Essential for oil and protein production
March (Stem extension)		High N, Mg + micronutrients to support oil & N supply. Add Boron if needed
April (Bud to early flower)		Second N split - based on yield potential and crop demand
May (Pod fill)		Final N if needed - support pod fill and oil production



OTHER KEY NUTRIENTS FOR STRONG OILSEED RAPE

- Mg** Magnesium - Supports photosynthesis, keeping the crop green, active and growing strongly.
- Mn** Manganese - Helps early growth, rooting and crop strength, especially on light or high pH soils.
- B** Boron - Important for strong roots, growing points, flowering and pod set. A key nutrient for oilseed rape.
- Mo** Molybdenum - Helps the plant use nitrogen efficiently and supports healthy root development.
- Zn** Zinc - Supports early plant growth, hormone activity and crop resilience during establishment.
- Ca** Calcium - Strengthens cell walls, growing points and stem structure. Supports root development, flowering, pod set and stress resilience.

SULPHUR - DON'T MISS IT

Oilseed rape has a high requirement (50-100 kg/ha of SO₃) and should be part of every spring fertiliser plan.

- Sulphur supports:**
- ✓ Nitrogen efficiency
 - ✓ Yield formation
 - ✓ Oil content
 - ✓ Protein formation
 - ✓ Healthy flowering and pod development

MONITOR AND ADAPT

Check biomass, soil nitrogen and price. Fine-tune N timing and rates for best return on investment.

HEALTHY PLANTS MAKE MORE YIELD, AND MORE PROFIT

PRE-DRILLING AND ESTABLISHMENT CHECKS

- ✓ Soil analysis results reviewed
- ✓ pH level checked
- ✓ P, K and Mg checked
- ✓ Trace element risks checked
- ✓ Previous crop and straw burden considered
- ✓ Seedbed conditions assessed
- ✓ Flea Beetle pressure considered
- ✓ Fertiliser plan made
- ✓ Product source and nutrient balance discussed
- ✓ Fertiliser delivered or collection arranged
- ✓ Drilling date matched to variety, moisture and conditions
- ✓ Fertiliser properly applied before or during drilling
- ✓ Pest control plan in place
- ✓ Spring nutrition plan prepared
- ✓ Biostimulant strategy considered
- ✓ Final nutrition plan revised against yield and potential input costs
- ✓ Monitor crop and adjust as needed

Proudly supporting growers across East Anglia



SPEAK TO PAYNE CROP NUTRITION BEFORE DRILLING TO BUILD YOUR OSR ESTABLISHMENT PLAN.



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