

Crop Nutrient News

July 2009 | from Carrs Fertilisers and SFP



AVAIL



Introducing AVAIL® Phosphorus Fertiliser Enhancer

AVAIL works at the microenvironmental level to:

- ▶ Surround phosphorus in a water-soluble "shield"
- ▶ Reduce phosphate fixation in the soil
- ▶ Keep more phosphorus available to the plant throughout the growing season

Establishment the key to unlocking yield potential

The development of a plant's roots, and the subsequent initiation of yield-determining tillers, depend on adequate available phosphate around the developing roots of the young plant.

In the first six weeks the roots can only access around 5% of the soil to obtain nutrients. The very limited mobility of phosphate further challenges the plant's development.

AVAIL can help your crops reach their potential

With the introduction of AVAIL® Phosphorus Fertiliser Enhancer into the UK, growers have the opportunity to harness the value of the phosphate they are applying, which will help provide the required available phosphate to the plant.

Carrs recommend that whenever phosphate fertiliser is applied to autumn sown crops, 80% or more of the P necessary for that crop is applied pre-emergence as AVAIL-treated P.

AVAIL-treated P will remain accessible by the plant for the whole growing season, thus will supply the crop requirements throughout the life of the crop. This is a significant advantage over conventional phosphate fertiliser, which starts locking up in the soil soon after application.

The extra cost of AVAIL is small compared to the advantages it offers. Indeed, by increasing the availability of the phosphate it reduces the cost of *plant-available P* by half.

continued on next page



The wheat on the left received AVAIL-treated P, the wheat on the right standard P. Note the larger plant size and root system on the wheat that received AVAIL-treated P.

Brought to you by:



Establishment the key to unlocking yield potential

continued from previous page

Carrs Autumn Fertiliser Range

There are a number of options open to the grower aimed at providing the right products for every situation.

Our standard Autumn New Choice + AVAIL range includes the following products:

P, PK & Reseeds

6-21-28 + 3 S₀₃

6-16-32 + 6 S₀₃

0-21-28 + 3 S₀₃

0-16-32 + 2 S₀₃

TSP 46% P₂O₅

'Greengrass Reseed'

5-26-13 + 5 S₀₃

'Multi-Choice'

7-21-14 + 3.5 S₀₃



The Carrs 80/20 System

Below is the detail of our 80/20 system, a new programme designed to answer many of the challenges of nutrition in autumn sown crops.

'PK 80/20' + AVAIL is an innovative approach to PK fertiliser application for autumn cereals

Introducing 'PK 80/20' + AVAIL

What is 'PK 80/20' + AVAIL?

A new approach to PK fertilisers for autumn cereals in which 80% of the P and 20% of the K requirements are applied in the autumn, with the balance applied in the spring together with nitrogen and sulphur.

Why 'PK 80/20' + AVAIL?

- ▶ The highest nutrient uptake in establishing autumn crops is phosphate and calcium
- ▶ The phosphate in 'PK 80/20' is treated with AVAIL, a unique phosphate fertiliser enhancer
- ▶ Potash uptake is highest in spring, so it makes sense to apply it in the spring
- ▶ Potash prices are still very high, so it also makes sense to 'spread' the purchase of potash between autumn and spring

How does the 'PK 80/20' + AVAIL system work?

1. Establish your soil indexes for P, K and Ca. If you don't know them, contact us for soil sampling.
2. Estimate your yield.
3. Choose the appropriate 'PK 80/20' + AVAIL grade (see table overleaf).
4. For each 'PK 80/20' AVAIL grade there is a corresponding spring NPK + S grade to apply the correct nutrient balance. We will contact you to discuss the correct spring balancing fertiliser for you.

continued on next page

Introducing 'PK 80/20' + AVAIL

continued from previous page



Plan ahead to increase yield potential this season

With fertiliser prices unpredictable, get the most from your investment:

- ▶ Contact Carrs to plan your specific autumn PK needs
- ▶ Integrate AVAIL into your autumn application to make the most of your P
- ▶ Determine the correct NPK + S application for spring

'PK 80/20' + AVAIL range

'PK 80/20' + AVAIL	P and K soil levels	Application rate *	
		8 tonnes / ha	10 tonnes / ha
0-34-12 + 20% Calcium	Medium P / Medium K	165 kg/ha	210 kg/ha
0-31-17 + 17% Calcium	Medium P / Low K	180 kg/ha	225 kg/ha
0-38-8 + 21% Calcium	Low P / Medium K	250 kg/ha	310 kg/ha

* The recommended application rates above are based on straw being removed and no slurry or FYM being applied.

The Benefits of 'PK 80/20' + AVAIL

Feature	Benefit
Contains AVAIL Phosphorus Fertiliser Enhancer	AVAIL is proven* to reduce phosphate 'lock-up' in the soil, giving higher yield potential or the opportunity to save money by using less phosphate
Contains high levels of Ca	Calcium is vital for strong roots and shoot, giving better establishment and reduced lodging
Designed to match crop off-take of NPKS and Ca	Provides exactly the right amount of 5 key nutrients for optimum yields and crop quality
Provides correct nutrients at optimum times	Maximises nutrient efficiency ensuring optimum value for money on fertiliser expenditure

* AVAIL is tried and tested in extensive field trials in the UK. Contact us for further information.

Information and expert help are available for anyone interested in looking at the 'PK 80/20' + AVAIL range. Contact us on 01228 554610.

Contact us:

Carrs Fertilisers
Old Croft
Stanwix
Carlisle CA3 9BA

Tel 01228 592140
Fax 01228 592207

info@carrs-fertiliser.co.uk
www.carrs-fertiliser.co.uk



AVAIL is a registered trademark of SFP. All rights reserved. AVAIL has been widely tested with phosphate fertilisers. Manufacturer makes no warranty of merchantability or fitness for a particular purpose, nor any other express or implied warranties beyond that stated or required by law. ©2009 Carrs Fertilisers and SFP. All rights reserved.