

Oilseed rape (OSR)

eNTiton™ is an advanced foliar spray containing our PiNT™ technology. This optimises nitrogen delivery to plants and encourages better rooting and establishment of OSR.



Benefits of eNTiton

- ✓ Improved rooting and crop establishment in Autumn
- ✓ Helps farmers remain compliant in nitrate vulnerable zones (NVZ)
- ✓ Increased yields
- ✓ Formulated with calcium (Ca), potassium (K) or magnesium (Mg)
- ✓ Compatibility with other AgChem foliar sprays.

Nutrient content

Nutrient	eNTiton Ca		eNTiton K		eNTiton Mg	
	%w/w	g/L	%w/w	g/L	%w/w	g/L
Total nitrogen (N) [of which ureic]	15 [9.5]	202 [128]	15 [13.7]	180 [164]	15 [15]	189 [189]
Calcium (Ca) [CaO equivalent]	7 [9.8]	94 [132]	-	-	-	-
Boron (B)	0.17	2.3	-	-	-	-
Potassium oxide (K ₂ O)	-	-	7	84	-	-
Magnesium (Mg) [MgO equivalent]	-	-	-	-	2.5 [4.1]	31 [51]

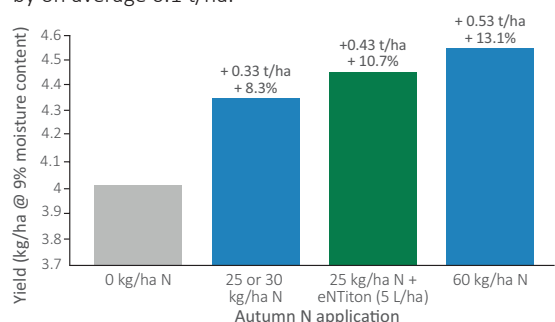
PiNT™ Advanced nitrogen technology

PiNT is a stabilised ureic /cation complex (Ca, K or Mg), providing a controlled release of ammonium which can be converted to nitrate. The managed release maximises N availability whilst minimising leaching and volatilisation, without the need for urease inhibitors.

Increased yields

Five trials were conducted in the UK where a foliar spray of one or more eNTiton products, together with 25 kg/ha of autumn nitrogen (N), was compared with 0, 25 or 30, and 60 kg/ha of autumn N. All trials were grown with standard maintenance and typical spring N applications.

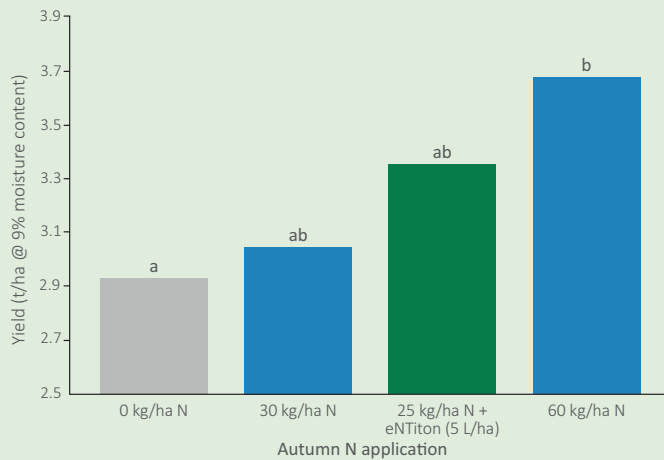
While application of 60 kg/ha N gave the highest average yield, this exceeds the legal limit in NVZ. Reduced autumn N application (25 or 30 kg/ha N) constrained yield, however the addition of eNTiton increased yield by on average 0.1 t/ha.



Yield response of eNTiton is dependent on the need for autumn N

Plant responses to autumn N can vary, as was the case with the trials discussed overleaf. In three of the five trials, autumn N application had a significant effect on yield compared to the 0 kg/ha N control, although no significant effects across rates of N were observed.

Trials which showed a greater yield response to increased N application, from a low (25 or 30 kg/ha) to a high (60 kg/ha) rate, also had a more positive response to foliar eNTiton application, with yield increases of up to 0.3 t/ha (see example below). In this trial ammonium nitrate was used as the pre-emergence fertiliser, and eNTiton Ca was applied at a rate of 5 L/ha to OSR at the GS13 stage (3 leaves unfolded). There were significant differences between the treatments ($P < 0.05$), and the letters above the bars indicate which treatments were significantly different.



We have a range of products to suit your needs

Within the eNTiton range we have three variations each with a different nutrient content. This couples the benefits of the PiNT technology with the flexibility of selecting the required nutrient for your application. Please speak to your agronomist to determine the most suitable product within the range.

eNTiton™ Ca

Calcium is a key component of plant cell walls and membranes.

eNTiton™ K

Potassium is a critical element for plant metabolism, carbohydrate transport and enzyme activity.

eNTiton™ Mg

Magnesium is important for efficient photosynthesis and enzyme function.



Directions for use

Shake well before use. Apply 4-6 L/ha to OSR in a minimum of 200 L/ha water from the 3rd true leaf stage. Use 1-2 applications, 14-21 days apart. For more detailed advice, consult your agronomist.

Tank mixing

eNTiton is compatible with most pesticides, adjuvants and foliar fertilisers. Mixing products containing calcium with high levels of sulphate or phosphate may cause precipitation. Always conduct a jar test before use to ensure physical compatibility.



Find more information on our PiNT products for OSR at:
www.plantimpact.com e: info@plantimpact.com