

# Maximise your crop yield

**The cropzeal range of specialist cropping fertilisers delivers optimum nutrient concentration and flexible application strategies that are vital for successful crop establishment.**

## fertiliser placement

In cropping situations in particular, fertiliser placement can impact on plant growth. If fertiliser is applied with seed in order to help crop establishment, care must be taken to ensure it is not too close to the seed, otherwise root burn can occur.

Root burn is caused by high concentrations of nutrients in close proximity to seedling roots. The nutrients in fertiliser granules dissolve in soil water; when this comes into contact with young plant roots it can cause damage.

The likelihood of any fertiliser causing root burn is in part determined by its salt index, which is a reflection of the chemical composition of the fertiliser. Soil conditions also affect root burn potential. The higher the moisture content of the soil, the lower the risk of root burn from any given product.

Some seedlings are more sensitive to root burn than others, wheat and oats being more tolerant than swedes and turnips.

To avoid the possibility of root burn apply capital base dressings 7-10 days before planting and lightly work them through the soil. If drilling fertiliser with seed, ensure only products with a low salt index are used.

Placing fertiliser relatively close to seed through drilling or banding has an advantage as it ensures that nutrients, in particular phosphate (P), which is comparatively immobile in soil, are easily available for plant uptake. In the absence of nutrient deficits plant growth is enhanced, provided soil water, temperature and sunlight are adequate.



Strategic partner to:



[www.ballance.co.nz](http://www.ballance.co.nz)  
FREEPHONE 0800 222 090



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## Investing in growth

Ballance Agri-Nutrients, a leading New Zealand fertiliser specialist, offers an extensive range of products and services designed to maximise grower productivity without compromising long-term sustainability. A 100% farmer-owned co-operative, Ballance invests heavily in research and development in order to produce innovative solutions to customers' needs. With a commitment to sustainable farming practices Ballance sponsor the Ballance Farm Environment Awards to ensure that future generations of New Zealanders benefit from the same resources that are currently available.

The **cropzeal** range of products reflects the Ballance focus on providing what the customer needs. Six separate products have been designed to stimulate optimum crop production in a range of cropping conditions. Whether you need a compound fertiliser, a blended product or a specialist crop solution, it is all covered by the **cropzeal** range.

**cropzeal** fertilisers are produced using locally manufactured products and can either be broadcast or direct-drilled. All products in the range contain nitrogen (N), phosphate (P) and sulphur (S). Potassium (K), magnesium (Mg), calcium (Ca) and boron (B) are included in products within the **cropzeal** range.

product range	N	P	K	S	Mg	Ca
cropzeal 15P	13.5	15.1	12.5	0.8	-	-
cropzeal 16N	15.4	8.0	10.0	9.6	-	-
cropzeal 20N	19.3	10.1	-	12.0	-	-
cropzeal 25K	9.0	10.1	25.0	0.5	-	-
cropzeal brassica base	5.8	4.8	7.3	5.9	3.5	12
crop fertiliser	5.1	4.4	5.0	11.2	3.3	11

application guidelines	use	rate (kg/ha)
cropzeal 16N	Arable cropping fertiliser	150-250
cropzeal 20N		150-250
crop fertiliser	Base cropping fertiliser	500-750
cropzeal brassica base	Brassica crop fertiliser	750
cropzeal 15P		250-400
cropzeal 12-10-10	Crop starter fertiliser	250-375

## why choose cropzeal?

**cropzeal 12-10-10** for a compound fertiliser with the same ratio of nutrients in every granule.

**cropzeal 12-10-10** for a balanced starter fertiliser or side-dressing.

**cropzeal 15P** if you are growing arable crops that demand high rates of P and moderate rates of N.

**cropzeal 16N** if you require a high ratio of N to P and want the added benefits of K.

**cropzeal 20N** if you require a high ratio of N to P and where K requirements are minimal or will be met by base fertiliser or side-dressing applications.

**cropzeal brassica base** to supply all the nutrient needs of brassica crops, including the trace element B; especially useful on pumice and peat soils.

crop fertiliser is a good all-round product to boost fodder crop establishment.

The **cropzeal** range of products has been specially formulated to meet the specific nutrient requirements encountered in most cropping situations



**cropzeal** brassica base contains 25 kg granular B per tonne, to ensure healthy plant development

Blended **cropzeal** products - **cropzeal 15P**, **16N** and **20N** - have been designed to minimise segregation on spreading

**cropzeal** brassica base and **cropzeal 15P** are ideal for enhancing the yield of forage crops such as summer brassicas, turnips, swede, rape and kale



When resowing after a depletive crop such as maize, drilling in **cropzeal** will help with new pasture establishment

**all you need to grow**

