



## High Analysis Phosphate Fertiliser

### Controlled Release Phosphorus Fertiliser

### For More Sustainable Agriculture



### GR8 clova

#### A High Analysis Phosphate Fertiliser

The synergies between the soil, water, climatic conditions and the plant are varied and complex. It is becoming important from an economic and environmental view point that applied fertiliser is utilised where it is placed. **GR8 clova** will allow for a boost of phosphate now but also have a longevity which will deliver extra phosphate for continued growth.

#### Impacts on P loss to water and potential approaches to minimise loss

Phosphate inputs are essential for cost effective crop and livestock agriculture. However, phosphate inputs can also increase the biological productivity of surface waters by accelerating eutrophication that is responsible for the impairment of surface water quality because of an increased growth of undesirable algae and aquatic weeds, (Khan and Mohammad, 2013).

At times, phosphate applications are made to soils already at an optimum soil phosphate concentration for plant growth with the aim of building up soil phosphate reserves. While this can be viewed as an insurance policy to keep sufficient phosphate in reserve for later years, it also significantly increases the potential for phosphate loss to overland flow, (McDowell, Monaghan and Carey, 2003).

One of the methods that can minimise phosphate losses to water is to ensure that soil Olsen P is maintained within the optimum range for pasture production. Having an Olsen P concentration above optimum represents an unnecessary source of phosphate loss and an unnecessary waste of phosphate inputs such as fertiliser, (McDowell and Nash, 2015).

Fertilizer New Zealand also supply a range of BioGro certified products from liquid and solid fertilisers to compost and septic tank activators.



**While Fertilizer New Zealand usually recommends natural phosphate fertilisers, some farmers will still prefer to use acidic phosphate. GR8 clova will provide another choice.**

The advantages include having readily available phosphate while keeping 25% phosphate in reserve for later. This component will not be so easily lost to the environment. **GR8 clova** is granulated for ease of spreading with almost no dust. This will be easier for ground and aerial spreading.

**GR8 clova** is an acid based water soluble fertiliser which most farmers are familiar with. It has very low levels of cadmium at 6ppm.

**GR8 clova** has higher levels of phosphorus at 15.5%, some of which is immediately available and some will become available as the plant requires it. The reserve phosphate will be still available but is least likely to be lost to the environment through excessive rain, irrigation or water run-off.

#### Test Results

Sample Name	P Phosphorus %	CSP Citric Soluble Phosphorus %	S Sulfate Sulfur %	Ca Calcium %	Cd <sup>+</sup> Cadmium ppm
GR8	15.5	11.8	2.3	14.0	6

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