

VerdeNT

20-0-0+9CaO

VerdeNT is a new nitrogen/calcium formulation with a unique MAS Bio Package specifically designed to manage crop structure and enhance yield and quality.
















A high specification nitrogen/calcium formulation made using Arm U stabilised nitrogen to give stable long lasting performance.

VerdeNT is designed for regular application to both roots and foliage to assist the growing crop to build strong cells and manipulate root to shoot ratio to optimise yield and quality.

The unique formulation combines specific organic acids, alginates and Engage's MAS technology to optimise growth processes and aid nutrient assimilation and transport.

VerdeNT supports the growing crops by providing a nutritional package of growth stimulating and stress relieving elements to maximise growth potential.

CROPS

-  Brassicas
-  Top Fruit
-  Cereals
-  Stone Fruit
-  Leafy Salads
-  Vines
-  Potatoes
-  Citrus Fruit
-  Carrots/Parsnips
-  Soft Fruit
-  Legumes
-  Ornamentals
-  Fruiting Vegetables

Analysis

Nitrogen (N)	20.0%	Calcium (CaO)	9.0%
Bio-Pack	4.0%	MAS Technology	4.0%

The function of Nitrogen

Nitrogen is a structural component of many essential plant parts and compounds. They include:

- N is a structural component of chlorophyll
- N is a structural component of the nucleic acids (DNA, RNA) in each cell
- N is a structural component of all proteins.

As a result of these functions, regular corrections of N shortages result in large gains in vegetative growth, much higher protein levels, and much higher yields of grain, fruit, and vegetative plant organs.

While these gains are normally desirable, excess amounts of N, either in absolute terms or sometimes in the ratio of N to other elements, can have a negative impact on some aspects of growth which can effect yeild and quality. This is why in VerdeNT the nitrogen is created using the Engage 'Arm U' advanced slow release molecule to allow the nitrogen to be absorbed more slowly by the plant, allowing maximum take up without over feeding.

The Nitrogen in VerdeNT is also partnered with a high level of calcium to add essential support to the crop as it utilises the nitrogen provided.

The function of Calcium

Calcium is essential for many plant functions. Some of them are listed below:

- Cell division and cell elongation
- Cell wall development and strength
- Nitrogen uptake and metabolism
- Enzyme activity
- Starch metabolism

Calcium is transported in the xylem via an ion exchange mechanism. It attaches to lignin molecules and exchange must occur with calcium or another similar cation, such as NH_2^+ . Calcium is not very mobile in the soil, or in plant tissue, therefore a continuous supply is essential.

Within VerdeNT the unique Bio package is designed to aid uptake and penetration and supports transport and assimilation once within the plant.



VerdeNT Mas Bio Pack

The Unique Bio-pack within VerdeNT has been specifically created to help maximise the yeilding and quality. The package contains a blend of seaweed uniquely high in plant phyto hormones with selected organic acids and Engage's MAS technology to aid the uptake and penetration of the application by to roots or leaf. Once in the leaf the Bio-Pack aids nutrient transport and assimilation by the plant and provides a support package to reduce stress potential and to support essential processes to produce support consistent yeild and quality crops!

Crop	No of Apps	Timing	Rate L/Ha
Cereals	1-3	Apply as part of an establishment program whilst the crop is in the growing phase of the crop. Apply from 4th true leaf at 14 day intervals combined with applications of pesticide	5-15
Maize/Corn	2-4	Apply as part of an establishment program whilst the crop is in the growing phase of the crop. Apply from 4th true leaf at 14 day intervals combined with applications of pesticide	5-15
Potatoes	2	Apply as a side dressing or foliar application at tuber initiation to assist in the process and to aid retention of formed tubers. Repeat after 14 days.	5-10
Brassicas	2-3	Apply as part of a program designed to aid head formation in brassica or bud formation in sprouts. Apply as a foliar application at 14 day intervals	5-10
Leafy Salads	1-2	Apply from 4th true leaf every 10-14 days to aid leaf expansion and quality through to harvest to aid head formation and storage.	2-5
Top fruit	3-6	Apply from petal fall as required to aid leaf expansion and early development of fruit. Ideal for Mid-season use to provide essential calcium to the tree and to relieve stress	4-8
Stone fruit	2-4	Apply from petal fall as required to aid leaf expansion and early development of fruit. Ideal for Mid-season use to provide essential calcium to the tree and to relieve stress	4-8
Soft fruit	2-6	Apply from two weeks after planting to open flower to aid early establishment and leaf development. Also to add strength to developing flower buds. Apply at 10-14 day intervals, up to breaking bud and also after harvest to support crown development and flower initiation	3-6
Fruiting Vegetables	As required	Apply as part of a regular program to optimise crop development and fruit support. Apply at 14 day intervals.	3-6
Vines	As required	Apply from early leaf development through to harvest to optimise crop development and fruit support Apply every 14 days	3-6
Ornamentals	As required	Apply as required to aid plant development and to aid plant during periods of stress	2-5

Compatibility and Application

VerdeNT is ideal for both root and foliar application and is compatible with most other nutrients and agrochemical products.

Avoid mixing with sulphate and phosphate containing products.

When mixing with multiple products or new products for the first time, a simple jar test is recommended.

For more detailed application rates per crop, please visit engagecropsolutions.com or speak to an Engage advisor.

Always read the label before use.

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