

OMNICAL™

A HIGHLY SOLUBLE, BEST QUALITY STANDARD SOURCE OF CALCIUM AND NITRATE

In order to ensure good quality yields, it is necessary to supply calcium to the plant, as it is essential in the physiological processes involved in the production of fruit. Without it tissues will die, resulting in disorders such as bitter pit in apples; blossom-end-rot in tomato, paprika and melon; scorching of the edges of lettuce leaves; crack-out percentage in macadamia; internal browning and skin finish in potatoes; and creasing in citrus.

Calcium also contributes to the storage life of fresh produce.



THE INFLUENCE OF CALCIUM (Ca)

To improve fruit quality and shelf life, producers should optimise the strength and structure of cells in fruit. This is achieved when sufficient calcium (Ca) is made available during the cell division and cell enlargement stages.

Calcium is a key component of calcium pectate, which is the building blocks of cell walls. It binds developing cell walls and keeps tissues intact, optimising physiological processes and offering protection against pathogen attack.

A high quality product will be free from harmful elements and will ensure good value for money. Generally a level of 200 ppm insoluble solids in a 1% solution is acceptable internationally. Omnia's OMNICAL™, however, contains less than 50 ppm insoluble solids and is totally free from heavy metals - guaranteed.



CALCIUM UPTAKE

Plants absorb Ca in a different way to other nutrients. Calcium is only absorbed by the developing cells of young root tips. Once mature, these cells no longer absorb Ca. It is therefore necessary to ensure that Ca supply is not limited to developing fruits and leaves. Incorporating OMNICAL™ into the plant nutrition programme assists in achieving this.

Omnia's OFOS™ programme ensures exact recommendations to maintain the correct Ca concentration for optimal plant feeding, from fertigrating table grapes to nutrient solutions in the greenhouse for the production of crops such as tomatoes and peppers.

BENEFITS OF OMNICAL™

Highly soluble, OMNICAL™ is the quickest way to move an optimal form of Ca (nitrate Ca synergy) into the root zone where it is needed by plants. Calcium supply to root crops such as groundnuts and potatoes relies on those organs absorbing the Ca themselves. By applying OMNICAL™, Ca uptake is optimised as it is supplied in a soluble form present in the nutrient solution surrounding the root or tuber. Because nitrogen (N) is present in so many essential compounds within the plant, growth will be slow without it. OMNICAL™ is a rich source of nitrate N, a fundamental part of any plant nutrition programme. Additional benefits of OMNICAL™ include:

- Does not acidify the soil - in fact, it actually increases pH;
- Is a high quality granular product for easy handling and application. Also available as a 50% liquid;
- Has a relatively low hygroscopicity, meaning the product can be stored for longer periods;
- Is highly soluble - 1,2 kg can be dissolved in 1 litre of water at 25°C; and
- Is practical for use in field, foliar or fertigation applications.

Speak to your agriculturist about any crop quality related problems. Also inquire about prominent speciality fertilizers containing OMNICAL™.



Contact us on 011 709 8888
or visit www.fertilizer.co.za

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