FUNCTIONS OF MAGNESIUM IN PLANTS



- > Found at the center of the chlorophyll, essential for plant photosynthesis.
- > Is a carrier for Phosphorus, ensuring a steady supply to the plant.
- > Will increase nitrogen fixation in legumes.
- > Is both an enzyme activator and constituent of many enzymes.
- > Responsible for sugar synthesis and starch translocation.
- > Nutrient uptake control.

FUNCTIONS OF MAGNESIUM IN ANIMALS



- > Necessary for 100s of animal biochemical pathways, particularly involved in nerve function.
- > Ruminants require magnesium for efficient feed conversion and metabolism.
- > Magnesium deficiencies manifest themselves as nervousness, grass staggers, milk fever, low milk production, weight loss and infertility.

SOIL TESTING

We recommend that you complete a comprehensive Kinsey/ Albrecht soil test from Perry Analytical Laboratories to establish the base saturation levels of your soil and how much calcium and magnesium you need to apply.

CONTACT

For advice and soil testing anytime

- **1** 03 525 9843
- sales@goldenbaydolomite.co.nz

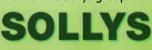
For sales enquiries

Ross Wright

- **6** 027 246 2114
- ross@goldenbaydolomite.co.nz

www.goldenbaydolomite.co.nz

Part of the Sollys group



Treavor Pearce

6 027 230 9934 trevor@sollys.co.nz

Supplies both Magnesium and Calcium carbonate in one application **Essential for plant** Is a natural resource photosynthesis of New Zealand Insoluble yet Is totally safe plant available on the environment Has a larger pH effect **Can improve** than calcium alone soil structure (ag lime)



7 WAYS **TO EMPOWER YOUR SOIL**

with Golden Bay Dolomite

www.goldenbaydolomite.co.nz

GOLDEN BAY DOLOMITE IS THE NATURAL COST-EFFECTIVE CHOICE

Applying maintenance amounts of Dolomite (250kgs/ha) can cost as little as \$40 to \$80/Ha (depending on region).

Farm benefits



Soils

- Increased nutrient storage and availability.
- > Continual improvement of soil tilth and soil structure.
- > Reduced reliance on nitrogen inputs.
- > Improved worm and microbial activity.
- Increases soil magnesium and calcium base saturation levels.



Stock health

- > Significant reduction in animal metabolic disorders, especially during the spring season.
- > Improved mating performance.
- > Reduce or eliminate the need for pasture dusting of magnesium oxide.



Pasture and Crops

> Supplies magnesium found at the centre of the chlorophyll, essential for plant photosynthesis.

and beyond.

This supplies enough calcium

and magnesium to meet your

soils needs, and to be a catalyst

for pasture growth this season

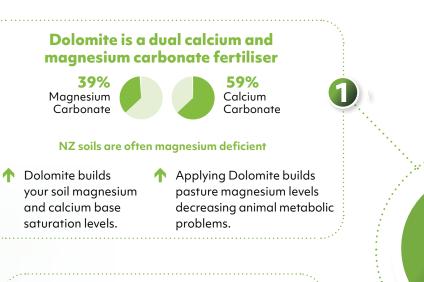
- > Stronger, more vigorous clover and pasture arowth.
- Stronger plant roots which grow further down into the soil profile.
- > Healthier, disease and pest-resistant crops.



Farm system

- > Continual sequestering of carbon.
- > Improved profitability.

7 WAYS TO EMPOWER YOUR SOIL WITH GOLDEN BAY DOLOMITE



Essential for plant photosynthesis



at the centre of the chlorophyll and essential for photosynthesis, turning sunlight into plant growth.



7

Insoluble vet plant available

Dolomite does not leach out valuable minerals like other magnesium sources can. Sulphate and chloride salts of magnesium can leach out valuable nutrient base ions such as calcium, potassium, and sodium, lowering soil fertility.

Can improve soil structure

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The correct base saturation of magnesium and calcium determines soil structure. Magnesium tightens soil and calcium loosens it.

Correct applications of Dolomite can lift the base saturation of both calcium and magnesium to the required levels, resulting in optimum pore space within the soil profile, providing 25% air and 25% water.

This, along with correct nutrient levels, provides an ideal environment for soil biology to thrive.

Is a natural resource of New Zealand

Dolomite, NZ's finest magnesium fertiliser, is a completely natural rock deposit from Mount Burnett, Golden Bay.

> Using Dolomite reduces your carbon footprint, and improves on farm profit.

Is totally safe on the environment

Dolomite neutralises soil acids and improves physical soil structures, along with stimulating bacterial decomposition.

Dolomite has certified organic status, meeting BioGro certification requirements for sustainable agriculture.

Lifts pH more effectively than calcium alone

Dolomite has 105% liming value making it 15% more effective at lifting pH than a 90% purity agricultural lime.

Dolomite can neutralise free acid found in certain phosphate materials and can counter the potential acidity of nitrogen fertilisers.

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