

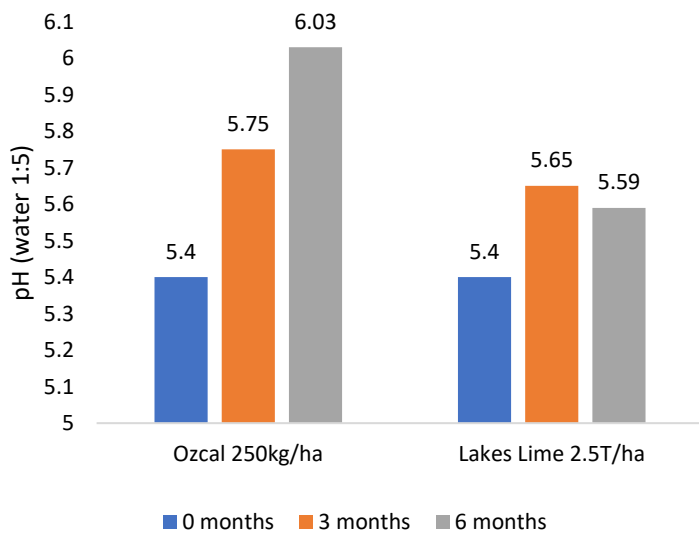


Trial results show

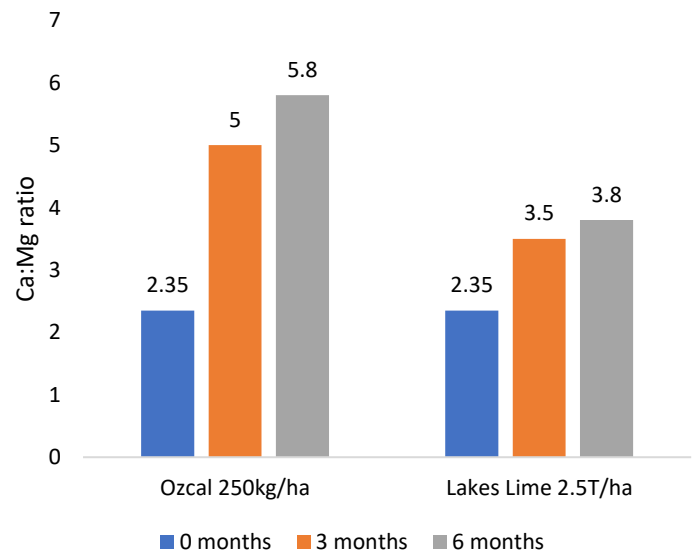
OZCAL ACHIEVES BETTER RESULTS THAN BULK LIME AT A 10% APPLICATION RATE

An independent field trial conducted in the Bairnsdale region found that applying Ozcal at 250kg /Ha outperformed bulk lime applied at 2.5T/Ha. Ozcal also continued to improve the pH over time in the trial, whereas the bulk lime did not.

The difference in pH change between Bulk Lime (2.5T/ha) and Ozcal (250kg/ha)



The difference in calcium magnesium ratio change between Bulk Lime (2.5T/ha) and Ozcal (250kg/ha)



This clearly demonstrates:

- 1) Ozcal can alter pH levels and improve the calcium magnesium ratio at low application rates due to **unique fineness** (below 20 microns) and high **neutralising value** (99%+).
- 2) Ozcal changed pH rapidly and continued to do so over time whereas the bulk lime did not in the field trial.
- 3) The smaller the lime particle is in size, the greater the number of particles that will come in contact with soil. Which means a greater exposed surface area of particles to react with acidic soil to neutralize pH and release calcium and magnesium.

Particle size and **Neutralising Value** are critical for even and effective soil pH management, plant root health, and soil microbe performance.

Ozcal®

Ultra-fine Granular Lime

Ultra-fine particle size results in high reactivity of the pure calcium carbonate. Therefore, greatly reduced rates are applied compared to Aglime.

Appearance	White Round Granule
Neutralising Value	99%
Calcium Content	39.2%
Particle Size	95% less 45 micron (average 20)
Granulation Sizing	3-5 mm
Common rates of application	10-20% of Aglime

OzcalMag®

Ultra-fine Granular Dolomite

Ultra-fine particle size results in high reactivity of the pure calcium and magnesium carbonate. Therefore, greatly reduced rates are applied compared to Dolomite.

Appearance	Off-White Round Granule
Neutralising Value	99%
Calcium Content	20%
Magnesium Content	11%
Particle Size	95% less 45 micron (average 20)
Granulation Sizing	3-5 mm
Common rates of application	10-20% of Dolomite

Ozgyp®

Ultra-fine Granular Gypsum

Ultra-fine particle size results in high reactivity of the pure gypsum. Therefore, greatly reduced rates are applied compared to standard agricultural Gypsum.

Appearance	White Round Granule
Neutralising Value	98%
Calcium Content	22.4%
Sulphur Content	17.9%
Particle Size	95% less 45 micron (average 20)
Granulation Sizing	3-5 mm
Common rates of application	10-20% of Gypsum

The Importance of Neutralising Value and Particle Size for Lime

Neutralising Value (NV) is a lime's capacity to neutralise soil acidity. Pure calcium carbonate has a NV of 100. Ideally NV should be 95 and over.

The Effective Neutralising Value (ENV) is the true measure of a lime quality and ability to neutralise soil acidity. ENV takes into account the NV and variation in particle size. The importance of ENV has been lost in recent years.

The ENV is typically a lot lower than the NV. To arrive at the true cost of your coarse lime you will need to know the ENV of the lime source.

Example, NV = 95, ENV = 59 and cost of lime applied is \$90/t. True cost of lime applied is $\$90/59 \times 100 = \$152/t$.

What is the true cost of your Lime?

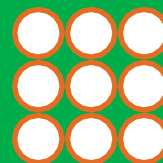
Particle Size Comparison

1000 micron = 1 mm

Reactive neutralising zone



20 Micron Ultra Fine Ozcal/Ozcalmag/Ozgyp



150 Micron Aglime

Nutrifert granular products allow a variety of placement options such as broadcast, into the cropping row or under the drip line.



For more information about Nutrifert's soil amendment products please contact your local dealer.