



Ozcal.

OzcalMag.

Ozgyp.

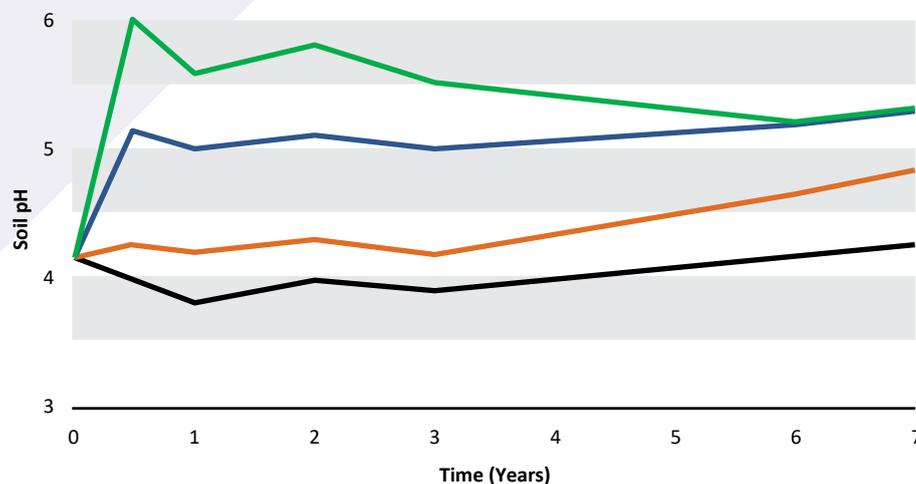
SOIL AMENDMENTS FOR SOIL HEALTH

It is a scientific fact that ultra-fine soil amendments are far more efficient and effective in the soil than coarse lime, gypsum and dolomite. Ultra-fine soil amendments also react a lot quicker.

The ultra-fine particles in Ozcal, Ozgyp and OzcalMag have a much greater combined surface area than coarse particles. The increase in exposed surface area achieves the better results, not the tonnes you apply per Ha.

Research shows that particle sizes below 0.075 mm are the most effective in the soil. Coarse lime, gypsum and dolomite have a large percentage of particle sizes in the range of 0.3-5.0 mm, making them highly ineffective.

Ultra-fine soil amendments benefit your crop immediately and last several years. The graph below from an NSW Agricultural Dept. lime trial illustrates this in the green line.



Ozcal, Ozgyp & OzcalMag can be Blended with Fertiliser

The granule size and hardness allows Ozcal, Ozgyp and OzcalMag to be blended with NPK fertiliser for a one-shot application. It is ideal for precision agricultural applications as the granules can be targeted for placement in the fertiliser and plant root zone.

— Lime <0.075 mm
— Lime 0.15-0.25 mm
— Lime 2-5 mm
— No Lime

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?

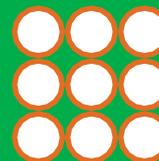
Particle Size Comparison

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.

