



Ozcal® OzcalMag® Ozgyp® OzgypZinc®

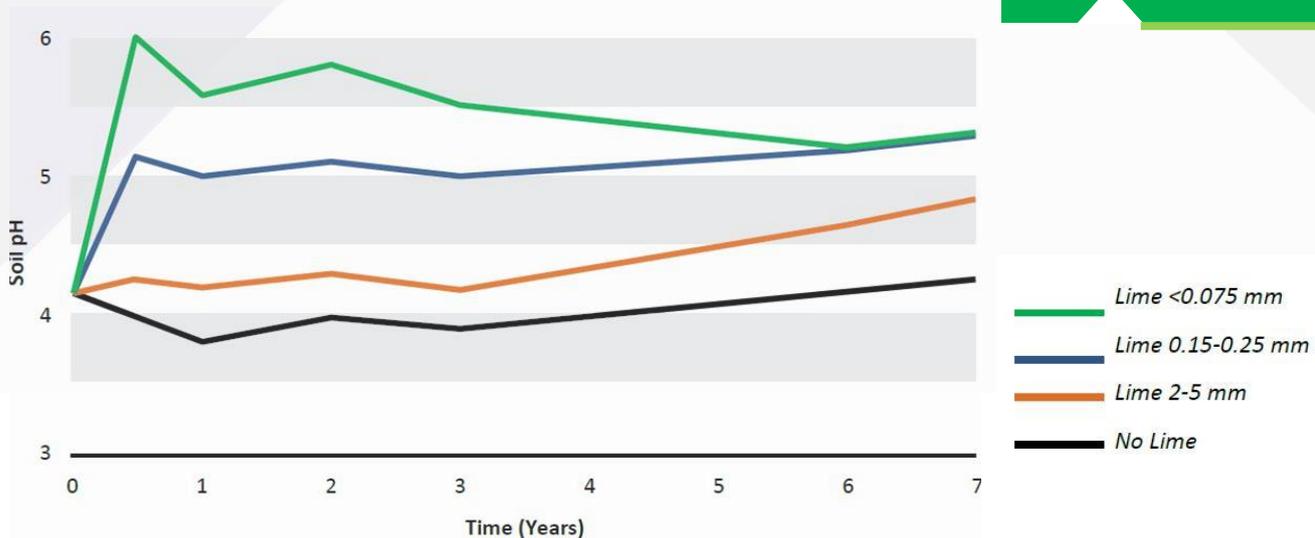
SOIL AMENDMENTS FOR SOIL HEALTH

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, OzcalMag, Ozgyp and OzgypZinc 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 & OzgypZinc can be Blended with Fertiliser

The granule size and hardness allows Ozcal, Ozgyp, OzcalMag & OzgypZinc 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.



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
Broadcast	- 200-500kg/ha
Banded	- 50-200kg/ha

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
Broadcast	- 200-500kg/ha
Banded	- 50-200kg/ha

Ultra-fine Granular Gypsum & Zinc Compound

Ultra-fine particle size results in high reactivity of the pure gypsum + zinc. Therefore, greatly reduced rates are applied compared to standard agricultural gypsum with the added benefits of Zinc.

Appearance	Off-White/Grey Round Granule
Purity	98%
Calcium Content	22.4%
Sulphur Content	17.9%
Zinc Content	0.34%
Particle Size	95% less 45 micron (average 20)
Granulation Sizing	3-5mm
Common rates of Application:	10-20% of Gypsum
Broadcast	- 200-500kg/ha
Banded	- 50-200kg/ha

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
Purity	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
Broadcast	- 200-500kg/ha
Banded	- 50-200kg/ha

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?

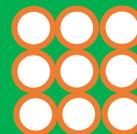
Particle Size Comparison

1000 micron = 1 mm

Reactive neutralising zone



150 Micron Aglime



20 Micron Ultra Fine
Ozcal/Ozcalmag/Ozgyp/OzgypZinc

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

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

