



Trial results show

# OZCAL INCREASES FERTILISER EFFICIENCY

It is a scientific fact that soil pH has a major impact on mineral availability, and therefore the efficiency of soil applied fertilizer. Recent trial results from the Mackay region proves that you can improve fertilizer efficiency by blending it with Ozcal and applying onto an acidic soil.

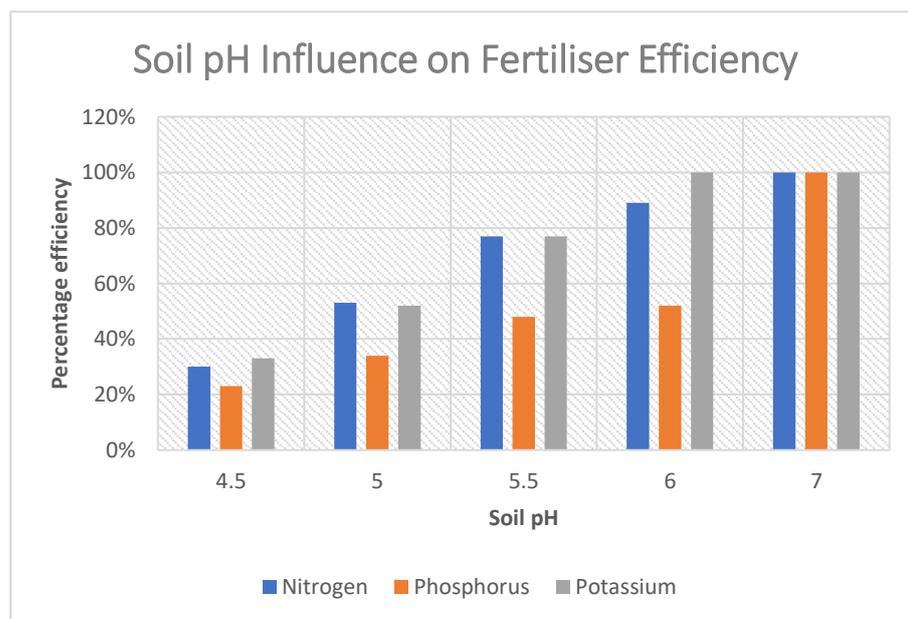
## Mackay Region Fallow Ground Trial

A soil trial was conducted in the Mackay region from March to May 2018 to illustrate the benefits of blending Ozcal with Fertiliser.

Soils in the Mackay to Proserpine areas are typically acidic, with pH's ranging between 4.5 and 5.5. This pH range has a negative effect on mineral availability and plant root health. Soluble phosphorus availability is a major concern in acidic soils, especially those with a pH below 5.5. The majority of P can lock up with aluminium, iron and manganese sometimes within a matter of hours.

The ultrafine particles contained in Ozcal granulated lime offer precision placement targeting the root zone where fertilizer acidifies the soil. By including Ozcal with DAP in a blend we improved the efficiency of nutrient release and availability from DAP. The high reactivity and quick release of Ozcal lime changed the pH in and around the root zone inside two months.

The soil tests were taken prior and then 2 months after applying the Ozcal and DAP blend at various rates.



## KEY RESULTS:

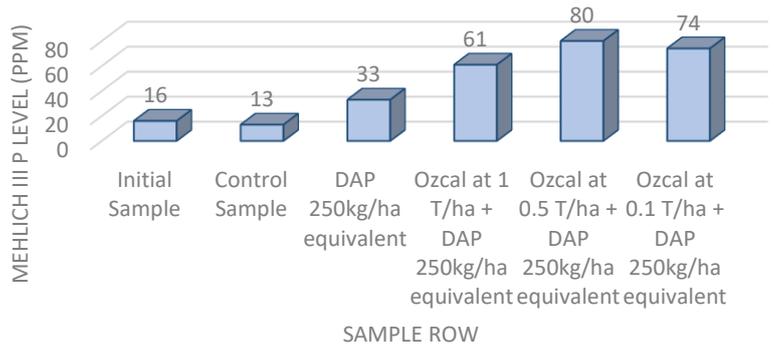
1. Ozcal successfully INCREASED THE AVAILABILITY of phosphorus when applied with DAP
2. Ozcal also successfully improved soil nitrogen levels, and calcium levels
3. Ozcal successfully increased pH



## Precision Application

The granular form of the lime in Ozcal allows direct placement in the fertilizer band where plant roots are active. Continuous nitrogen fertilizer use will acidify the root zone over time, therefore it is important to focus on concentrating lime applications in this area. Being in granular form, Ozcal can be applied as a straight or in a blend with fertilizer for a **one pass application** (broadcast or banded). The research has shown that Ozcal enhances the power of fertilizer when blended together.

Soil phosphorus levels 2 months after various Ozcal and DAP applications

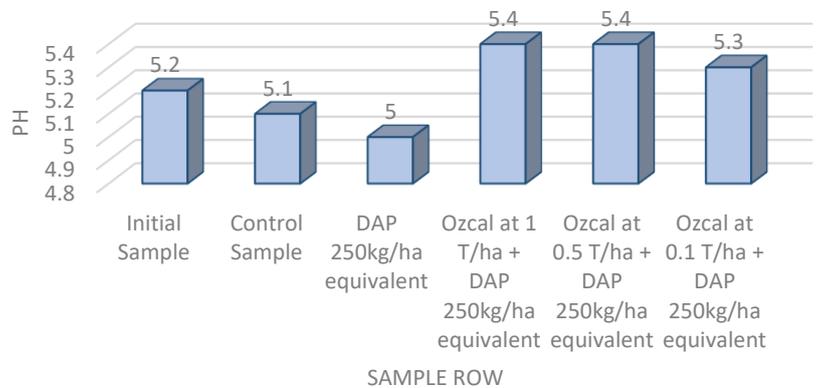


## Ozcal Granular Lime

The ultra-fine particles contained in every granule of Ozcal lime (95% under 45 micron) deliver superior soil pH adjustment and calcium release in the soil. The smaller the lime particle size, the greater the exposed surface area for reaction with acidic soil to neutralize pH and release calcium. Each Ozcal granule releases ultra-fine particles immediately upon contact with moisture, working deep into the soil to amend not just the top few centimetres, but the entire root zone.

This means you achieve your desired pH faster using Ozcal compared to broadcasting bulk lime, while also supplying your crop with available calcium, a nutrient strongly linked to plant health. You will also achieve results at much lower rates to standard coarse bulk lime.

Soil pH levels 2 months after various Ozcal and DAP applications



## Application Rates

The superior release capabilities of Ozcal allow it to be applied right up until the day of row forming for planting crops. Rates will vary depending on the situation, things to consider are the type of crop, broadcast or in row application, row spacings and soil test results. We recommend yearly applications to maintain a steady pH throughout each season, and to boost beneficial soil microbes and maintain soil structure.

Soil Nitrogen levels 2 months after various Ozcal and DAP applications

