



Quarry & Mineral

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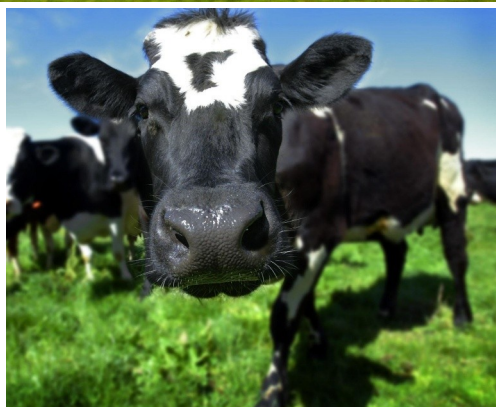
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**Quality
Endorsed
Company**
ISO:9001:2000 Lic. 10509
Standards Australia

Penlime

The cost effective, quality lime formulation for soil conditioning...



SOIL DEGRADATION

Soil acidification is a natural process, accelerated by some agricultural practices. In some regions, there has been a drop of pH unit over the last 10 years. Already, some farming areas have lost the ability to grow certain agricultural species simply because the soil is too acidic.

SOIL ACIDIFICATION

Soil acidification can be described as a sleeping giant. Symptoms of reduced growth in acid soils are often not easy to see and can be explained away by other factors such as a poor season or lack of fertilizer. It is only over a period of time that major problems become apparent.

In most grazing systems, acidification processes work unnoticed - until pasture productivity declines. The rate of acidification in pastures depends on the species grown. In cropping systems, reduced yields are more obvious.

The Solution is...

Penlime

The solution to soil acidification is the regular application of **Penlime**. If preventative or remedial strategies are put in place, acidification can be slowed down or soil pH adjusted so that a wide range of plant species can be successfully grown.

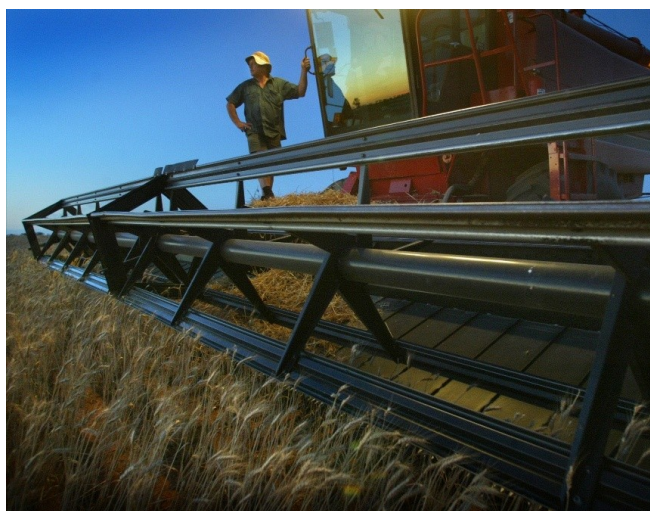
Penlime is a naturally crushed, calcium carbonate. Calcium is essential for the development and stability of plant cells. It is necessary to enable plants to cope with abiotic and biotic stresses such as deficiency in water, heat shock, excess water, chilling, low soil temperatures and lack of soil oxygen in compacted soils. It is also instrumental in alleviating soil acidity, salinity and aluminium toxicity.

BENEFITS

- ✓ Clean to handle
- ✓ Mounds up easily
- ✓ Spreads evenly
- ✓ Less likely to move excessively during spreading reducing waste
- ✓ Improves poorly structured, calcium deficient soil
- ✓ Improves crop yield
- ✓ Enhances pasture productivity
- ✓ Treats grass tetany
- ✓ Helps to ensure the sustainability of Australian Agriculture

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TYPICAL ANALYSIS

		%
Calcium	Ca	31.57
As Calcium Oxide	CaO	44.20
As Calcium Carbonate	CaCO ³	78.93
Magnesium	Mg	0.66
As Magnesium Oxide	MgO	1.11
As Magnesium Carbonate	MgCO ³	2.32
As CaCO ₃ Equivalent	CO ³	2.75
Sulfur	SO ⁴ -S	0.24

PARTICLE SIZE DISTRIBUTION

	SIEVE SIZE %
>850 Micron	31.5
<850 Micron	68.5

TNV - TOTAL NEUTRALIZING VALUE

(in terms of CaCO₃) 82%

Kgs Effective Ca per tonne	315.72
Kgs Effective Mg per tonne	6.65
Kgs Effective S per tonne	2