TECHNICAL PRODUCT SPECIFICATION

Hydrated Lime.

AUSTRALIAN AGRICULTURAL MINERALS

Contact us today and speak to our team about pricing and availability

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HIGH-PURITY HYDRATED LIME FOR INDUSTRIAL PERFORMANCE

Australian Agricultural Minerals (AAM) Hydrated Lime is a highly reactive, high-purity calcium hydroxide product designed for demanding industrial, civil, agricultural, and manufacturing applications. Produced from carefully selected lime sources and manufactured under controlled conditions, Hydrated Lime delivers consistent chemical performance, rapid reactivity, and reliable results across a wide range of uses.

PRODUCT OVERVIEW

AAM Hydrated Lime (Calcium Hydroxide – $Ca(OH)_2$) is a fine, white powder with strong alkaline properties and excellent neutralising capacity. With a high $Ca(OH)_2$ content and controlled impurities, it is ideal for applications requiring:

- Rapid pH adjustment
- Chemical stabilisation
- Moisture and odour control
- Process efficiency and product consistency

PERFORMANCE IN ACIDIC SOILS

AAM Hydrated Lime Powder is highly effective in the treatment of acidic soils, where acidic conditions limit chemical efficiency, biological performance, material stability, or process control. The product delivers rapidly available calcium and strong neutralising capacity, improving soil chemical balance and crop performance.

THIS PROCESS:

- Raises soil pH to optimal levels for a wide range of applications
- Neutralises soil acidity and toxic aluminium ions
- Improves nutrient availability (especially phosphorus, calcium, magnesium)
- Enhances soil biological activity
- Promotes root development and crop establishment

PURPOSE OF APPLYING	APPLICATION RATE (KG/HECTARE)
Corrects strongly acidic surface soils	200 – 600
Subsoil acidity management (incorporated)	400 – 1,000

KEY CIVIL BENEFITS:

- Improves **soil workability and plasticity**
- Increases **bearing capacity** of weak or clay soils
- Reduces **moisture sensitivity and shrink–swell behaviour**

KEY MINING BENEFITS:

- Rapid and effective **pH control**
- Improves **ore flotation and metal recovery**
- Neutralises **acidic process water and tailings**

KEY MANUFACTURING BENEFITS:

- Provides consistent **chemical reactivity**
- Improves **product quality and process yield**
- Removes impurities during **clarification processes**

KEY LIVESTOCK FACILITY BENEFITS:

- Supports **cleaner, drier** livestock facilities
- Assists **biosecurity** and **hygiene** programs
- Helps **manage odours** and **waste treatment** systems

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APPLICATION & HANDLING

- Suitable for **manual and wet spreading, or soil incorporation** to achieve fast pH correction
- Fine powder ensures **rapid reaction and effective distribution** in acidic conditions
- Best incorporated into the topsoil where practicable to maximise effectiveness
- Requires cool and **dry storage and careful handling** due to high alkalinity
- Application rates should be guided by **water and soil testing**
- Appropriate PPE is required when handling Hydrated Lime due to its reactivity.

CHEMICAL ANALYSIS

This is a manufactured mineral product. Minor variation may occur.

PARAMETER	COMPOSITION
Calcium Hydroxide $Ca(OH)_2$	≥92%
Iron Oxide (Fe_2O_3)	≤0.05%
Aluminum Oxide (Al_2O_3)	≤0.2%
Magnesium Oxide (MgO)	≤2.0%
Silicon Oxide (SiO_2)	≤0.50%
Sodium Oxide (Na_2O)	≤0.01%
Potassium Oxide (K_2O)	≤0.03%
Sulphur (S)	≤0.07%

PACKAGING

- Bulk bag 1000 kgs / 20 kg bag

STORAGE

- Store in a dry, enclosed environment

RECOMMENDED APPLICATION RATES

Hydrated Lime application rates vary widely by industry, from kg/ha rates in agriculture to percentage-by-weight dosing in civil, mining, stock management, and industrial processes.

ACTUAL RATES SHOULD BE DETERMINED BASED ON:

- Material characteristics, chemistry, and buffering capacity
- Application method and required level of pH or process control
- Operating conditions, exposure time, and performance objectives
- Environmental, safety, and regulatory requirements
- Site-specific or process-specific testing and professional guidance.