

# MMS QUICKLIME

(Calcium Oxide)



Calcium Oxide (CaO), commonly called "Quicklime" or "Burnt Lime" is a highly reactive chemical with variety of uses in the mining and industrial water treatment sectors. Quicklime is commonly used for its ability to stabilize pH, soften water, stabilize bio-solids, and precipitate nutrients.

Micronised Minerals (MMS) Fine Quicklime is a high quality calcium oxide product manufactured to a very fine grain size (typically less than 150µm), maximising the availability of Calcium Oxide for chemical processes. Quicklime is used by the mining industry to treat runoff and process waters from coal mining, metal mining and non-metal mines. Quicklime used with accurately designed slaking plants helps to neutralize acids from mining waters and precipitate metals and non-metals.

MMS has supplied individual clients up to 20,000 tonnes per annum of Quicklime utilising in-house designed innovative Handling and Storage Solutions.

MMS QUICKLIME		
PROPERTIES	TYPICAL	RANGE
CaO Available	90%	88 - 92%
SiO <sub>2</sub>	0.35%	1.0% Max
Al <sub>2</sub> O <sub>3</sub>	0.21%	0.5 Max
Fe <sub>2</sub> O <sub>3</sub>	0.08%	0.1% Max
MgO	1.0%	1.5% Max
SO <sub>3</sub>	0.15%	0.19%
pH	12	12 - 12.4

## PRODUCT HANDLING & STORAGE

MMS Fine Quicklime is classified as a fine grain material suited to pneumatic and mechanical conveying systems. Store in a cool, dry, well-ventilated area, removed from water or moisture, incompatible substances and foodstuffs. Ensure packages or storage tanks are adequately labelled, protected from physical damage & sealed. Avoid inhalation & ensure the product is in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended.

## PRODUCT SAFETY INFORMATION

Personnel should wear protective clothing, dust-proof goggles, preferably faceshield, PVC or rubber gloves and impervious boots. While using in large quantities, wear coveralls. Care should be taken to protect the product from moisture as it swells when moist and may burst containers. For full information, refer to the Safety Data Sheet for Quicklime

Physical Properties	Typical	Range
Grain Size (<150 µm)	>90% passing	90 - 100 %
Bulk Density	950kg/m <sup>3</sup>	950-1100 kg/m <sup>3</sup>

**MMS Quicklime services a variety of mining applications :**

- ♦ Heavy Rare Earth Mineral Processing
- ♦ Acid Tailings & Water Treatment for Gold and Uranium mines
- ♦ Quick lime for domestic waste water treatment and industrial binder applications.
- ♦ Quick lime to mine sites for use with in-house slaking plants.

- ☑ Grind sizes available to customer requirements.
- ☑ Supplied with packaging options: Bulk tankers and Bulker Bags

