MICRONISED
MINERALS AUSTRALIA

PRODUCT DATA SHEET

MMS QUICKLIME – QL100

Product Description

MMS Quicklime is a high quality Calcium Oxide product manufactured to a very fine grain size (typically less than 150 µm) maximising the availability of calcium oxide for chemical processes, and is off-white in appearance.

What is quicklime?

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

Applications

Quicklime is an important commodity chemical and is used in a number of industrial processes. The quicklime production process is relatively inexpensive making it one of the most cost effective chemicals available.

Mining industry:

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 neutralise acids from mining waters and precipitate metals and non-metals.

Civil/Industrial sector:

Quicklime has important applications in construction operations. It is used extensively in road and soil stabilisation, to reduce plasticity in wet soil on construction sites, and to improve soil workability and short-term strength.

Water treatment:

Quicklime is extensively used in water treatment applications to adjust and control pH levels.

Packaging options:

- ☑ 1350 kgs Bulker Bags
- ☑ Road Tankers
- ☑ ISO Containers
- ☑ Purpose-built tipping containers

Safety Information

Personnel should wear protective clothing, dust-proof goggles, preferably faceshield, PVC or rubber gloves and impervious boots. While using 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.

PROPERTIES	METHOD	TYPICAL
CaO Available	AS4489-1997	> 90%
pH in slurry	AS4489-1997	12
PROPERTIES	**CAS NUMBER**	**TYPICAL**
SILICON DIOXIDE	7631-86-9	0.5%
CARBON DIOXIDE	124-38-9	0.44%
ALUMINIUM OXIDE	1344-28-1	0.1%
IRON OXIDE (FE2O3)	1309-37-1	0.1%
QUARTZ (Crystalline Silica)	14808-60-7	<0.05%
MAGNESIUM OXIDE	1309-48-4	0.7%

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PHYSICAL PROPERTIES	
Slaking Rate	Maximum Temperature rise is 43ºC in 3 minutes
Residue on slaking (AS 1672.1)	0.1-0.3% on 600µm
Bulk Density	950 - 1100kg/m^3

Disclaimer

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