

HYDRATED LIME

ALKALINITY CONTROL

HYDRATED LIME or Slaked Lime is Calcium Hydroxide, $\text{Ca}(\text{OH})_2$. LIME is used to provide a source of calcium and hydroxyl ions in both water-based and invert emulsion oil-based fluids.

FEATURES AND BENEFITS:

- Controls pH and provides excess calcium.
- Used to treat bicarbonate/carbonate contamination.
- Used in clear water drilling as a source of calcium and pH.
- Used in Gyp/Calcium-based muds.
- Used in the brine phase of invert emulsion oil-based muds as alkalinity control and fatty-acid emulsifier activator.

LIME additions to a bentonite-based fluid will cause flocculation of the system resulting in excessive rheology and filtration.

RECOMMENDED TREATMENT:

0.5-1.0 kg/m³ for pH control and to treat carbonate contamination.
5-25 kg/m³ for calcium-based fluid breakover.
10-30 kg/m³ for oil-based invert emulsion muds.

PHYSICAL PROPERTIES:

Appearance:	White powder
Specific Gravity:	2.3-2.4
Solubility:	Slightly soluble
pH:	12 (saturated solution)

MIXING/HANDLING:

Add pre-mixed in water via the chemical barrel. Exercise caution while mixing. Refer to the SDS for specific handling requirements.

MICROTOX® THRESHOLD: TBD

PACKAGING: 22.68 kg bag / 50 bags/pallet