



## Product Information

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### Lime - Hydrated

#### GENERAL DESCRIPTION

Lime ( $\text{Ca}(\text{OH})_2$ ) is used primarily to control the pH range and to treat Bicarbonate contamination in water base drilling fluids.

#### FEATURES AND BENEFITS

Lime - Hydrated provides a source of Calcium for converting Bentonite systems to a Calcium (Lime) base drilling fluid.

Lime provides the required alkaline environment necessary for the dispersion of clays.

Lime is used primarily to control pH range and provide excess Calcium in water base drilling fluids.

#### RECOMMENDED TREATMENT

Lime is normally added in a concentration of  $0.70 \text{ kg/m}^3$  to control pH range or to treat Bicarbonate contamination. Premix in water in the chemical barrel, and add slowly to the system.

Lime is utilized in a concentration of  $6.0\text{-}23 \text{ kg/m}^3$  during the initial break over to a Calcium base drilling fluid.

Lime is added at concentrations of  $10\text{-}30 \text{ kg/m}^3$  when used to activate fatty acid emulsifiers.

#### TYPICAL PHYSICAL PROPERTIES

Appearance	fine white powder
Specific Gravity	2.34
pH of saturated solution	12.4
Bulk density	$1810 \text{ kg/m}^3$

#### HANDLING

Lime - Hydrated is a controlled product using the WHMIS classification. Refer to MSDS information for specific precautions and handling.

#### AVAILABILITY

Lime - Hydrated is packaged in 20 kg bags and is available from HiTech Fluid Systems Ltd.