



Product Information

Calcium Oxide (Hot Lime)

GENERAL DESCRIPTION

Hot Lime (CaO) is a grayish white powder.

FEATURES AND BENEFITS

Lime 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.

Processed Lime is used to activate the fatty acid based emulsifiers in most invert emulsion systems.

Hot Lime (Calcium Oxide) is used as a source of Calcium to activate the fatty acid based emulsifiers by converting them to Calcium based soaps. Excess is usually carried to protect the oil base mud system from contamination by acid gasses such as CO₂ or H₂S.

RECOMMENDED TREATMENT

Hot Lime is normally added in excess concentration of 10-15kg/m³ when used to activate any fatty acid emulsifiers. In areas where H₂S is suspected, increase the excess concentration of 20-30kg/m³.

TYPICAL PHYSICAL PROPERTIES

Appearance	Grayish Powder
pH	12.0
Specific Gravity	3.2
Solubility	0.54g/100ml of water

HANDLING

Hot Lime is a controlled product using the WHMIS classification.

Refer to MSDS information for specific precautions and handling.

AVAILABILITY

Hot Lime is packaged in 25kg bags and is available from HiTech Fluid Systems Ltd.