

PRODUCTS TECHNICAL DATA

PRODUCT NAME : Alkalinity agent, **ME-LIME**

ME-LIME, Alkalinity regulator is an essential additive for oil-based drilling fluid. Lim alkalinity regulator is mainly made by selecting fired lime block, removing impurities, selecting pure lime, and superfine grinding. The Ca^{2+} provided by Lim is conducive to the formation of binary metal soap, so as to ensure the added emulsifier can give full play to its efficiency. The binary metal soap formed contains two hydrocarbon chains, and their arrangement on the interface tends to form a convex oil surface, which is conducive to the formation of water in oil emulsion and enhance the stability of the emulsion; Lim alkalinity regulator can maintain the alkalinity of oil-based drilling fluid at the same time It can also effectively prevent the CO_2 , H_2S and other acid gases in formation to pollute the oil-based drilling fluid . Alkalinity and pH-control additives are used to optimize pH and alkalinity in oil-base drilling fluids. The control of many drilling fluid system properties is dependent on pH (e.g., the detection and treatment of contaminants such as cement and soluble carbonates). pH also affects the solubility of many thinners and divalent metal ions such as calcium and magnesium, and influences the dispersion or flocculation of clays. PH control additives provides a suite of additives designed to control the degree of acidity or alkalinity in drilling fluids.

Main function:

- To maintain alkalinity of drilling fluid in oil-based drilling fluid;
- To activate the emulsifier in oil-based drilling fluid;
- To effectively prevent acid gas and other pollution.

Appearance: white flowing powder. Recommended dosage: 2-4%

The comparable competitive products : Baker Hughes MIL-LIME, Dowell Idlube

Technical Index

Items	Index
Appearance	White powder
Sieve allowance (passing 0.30mm standard sieve) %, ≤	10
Drying loss %, ≤	10
pH of 1% aqueous solution, g/cm	10
Effective substance content ml, ≤	40