



enventives

VEN-ALK™

RECOMMENDATIONS

Ven-ALK™ can be used to thin almost all types and densities of water based drilling fluids. In addition, it will function as an effective emulsifier in oil-in-water muds and will provide some emulsification and dispersing properties for liquid lubricants. Ven-ALK™ can be used to stabilize salt contaminated muds. Ven-ALK™ is effective as a high temperature filter loss additive in water based mud systems.

Approximately 1-3 lb/bbl of Ven-ALK™ is usually required to produce optimum thinning of water based muds. When Ven-ALK™ is being used to emulsify oil or liquid lubricants in water muds, concentrations of 2-6 lb/bbl are common.

High temperature (above 350°F) filtration control can require 6-10 lb/bbl or more of Ven-ALK™. The actual concentration required depends on the mud system, bottom-hole temperature and other factors. Generally, the higher the temperature the more Ven-ALK™ required.

Ven-ALK™ can be added to the mud through the hopper or a chemical barrel.

GENERAL INFORMATION

Ven-ALK™ is a highly efficient, multi-purpose mud conditioner for water base muds. Ven-ALK™ is a pre-reacted salt produced by the reaction of sodium hydroxide with selectively mined "Leonardite" (a highly oxidized North Dakota Lignite).

Ven-ALK™ is used in water based muds to

- (1) reduce viscosity and gels in order to maintain desirable flow properties;
- (2) improve aging characteristics in high temperature fluids by controlling fluidity;
- (3) reduce high pressure, high temperature filtrates and provide tough, thin filter cakes;
- (4) thin and emulsify oil-in-water or liquid lubricant containing fluids;
- (5) reduce effects of contaminants; and (6) control the equivalent circulation density by maintaining suitable flow properties. Pre-reactions or pre-solubilization of the lignite with caustic soda eliminates the need to add free caustic at the rig site where native muds or low pH muds are being used.

Ven-ALK™ is convenient and economical to use. It is compatible with most chemicals used in water based drilling fluids.

PACKAGING

Ven-ALK™ is packaged in fifty (50) lb multi-wall paper bags with an internal polyethylene liner.

TYPICAL PROPERTIES

Composition	:	Sodium Salt of Oxidized Lignite
Form	:	Free Flowing Powder
Color	:	Black
Solubility In water	:	Readily soluble

PRECAUTIONS

Ven-ALK™ is a slightly alkaline product and precautions should be taken to minimize eye and skin exposure.

Ven-ALK™ should be stored in a dry place and normal weather protection should be provided.

Ven-ALK™ is slightly hygroscopic and should be protected from exposure.

See the Safety Data Sheet for more detailed information concerning storage, handling, transportation, disposal and safety requirements.