



Drilling Fluids, Inc.

# SEA MUD

## DESCRIPTION

A drilling clay used specifically in high salt content water based drilling fluids. **SEA MUD** is a sepiolite clay mineral with long, slender, needle-like structure, similar to attapulgite. It contains a mixture of fibrous and amorphous clay-like materials. API and ISO specifications exist for sepiolite used in drilling fluids. **SEA MUD** requires significant shear for viscosity increase.

## USES

For viscosity, **SEA MUD** is an effective product that does not depend on hydration. Similar to API bentonites, **SEA MUD** does not provide filtration loss control. Filtration control in **SEA MUD** systems is enhanced with the addition of polymers. Fluid loss control is also enhanced with the addition of prehydrated GEO Gel for improved particle size distribution.

## BENEFITS

The primary benefit of **SEA MUD** is that it yields viscosity in the presence of high salt concentrations. A second clay viscosifier for salt water is SALT GEL. **SEA MUD** provides more filtrate control than SALT GEL.

## TREATMENT

10 to 15 ppb **SEA MUD** added to salt water along with polymer viscosifiers and fluid loss agents is typical. May be used in conjunction with DRISPAC REGULAR, XANVIS, STARCH, or other salt tolerant materials.

## FUNCTION

**SEA MUD** develops a "brush heap" structure when it is sheared, producing substantial viscosity and moderate filtration control in salt systems. The long, slender, needle-like structure of attapulgite also produces viscosity but without the additional brush heap shearing it does not produce any significant filtration control.

## TYPICAL PHYSICAL PROPERTIES

Appearance.....finely ground gray powder  
Hygroscopic.....no  
Specific Gravity.....2.6

## SAFE HANDLING RECOMMENDATIONS

Read the Material Safety Data Sheet [MSDS] before using. Dust mask may be desirable for comfort due to dust hazard.

## PACKAGING

**SEA MUD** is packaged in 50 pound multiwall bags.

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