



NATURALGEL

DESCRIPTION

Naturalgel is an untreated bentonite (sodium montmorillonite), which meets the API specification for Non-treated Bentonite (API Spec 13A, Section 5, Fourteenth Ed. Aug. 1991).

Generally the wet yield of untreated bentonite is 80-90 bbl/ton of 15 cps viscosity mud.

PROPERTIES

Physical		Chemical	
Appearance:	Tan to grey powder	Type:	Sodium Montmorillonite
Specific Gravity:	2.45-2.55	Solubility:	Not soluble (forms colloidal suspension)
Bulk Density	880 kg/m ³	pH:	8.0-10.0 (5% suspension)
Flash Point:	Not flammable	Microtox:	Not applicable

APPLICATION

Naturalgel is used commonly in mud systems for which bentonite is prehydrated and then flocculated with a salt such as K⁺. In such instances the lower wet yield is not significant since the viscosity is obtained by flocculation. Naturalgel can also be used in extended systems where the yield is enhanced by the extending polymers.

Naturalgel is also a component of lightweight oilwell cement. Additions up to 25% wt./cement are used to reduce slurry weight and increase cement volume. Naturalgel can be dry blended in the cement or can be prehydrated in water.

MIXING AND HANDLING

Naturalgel is added to the system through the mixing hopper. It should be added no faster than 5 minutes per sack. It is advisable to use a dust mask and eye protection while mixing all powdered products.

WHMIS: Controlled (see MSDS)	TDG: Not regulated	PACKAGING: 40 kg sack
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