Oil Drilling Organoclay

Revised 11/2004

GelQuest™ 100

General Description

An organoclay rheological additive designed to offer cost effective performance in drilling mud applications.

Functional Use

GelQuest 100 is an organophilic clay developed for use with low toxicity oil and diesel based drilling muds as a viscosifier and anti-settling additive.

Composition

Quartonium Montmorillonite

Typical Specification

Colour	Light tan
Moisture	3% Maximum
Spec. Gravity	1.7- 1.8
Form	Free flowing powder
Particle size	>85% passing 75 microns

Performance

GelQuest 100 is used to increase the yield point and gel strength of an oil mud system and is effective in improving the carrying capacity of low weight oil muds. 100 is generally suitable in most systems for operating temperatures of 320 F, the limit depending upon the system in use.

Typical Analysis

Results given below are derived using invert drilling muds.
Testing system:
75:25 invert using low aromatic base oil and 0.75 activity $CaCl_2$ brine. Mud weight 11 ppg.

	AV	PV	YP	GELS
Fresh mud at 10 ppb Gelquest 100	37	29	15	15/22
Aged Mud (250F)	57	44	26	16/49

Treatment

GelQuest 100 is recommended for use at 5-12ppb on yield point

Packaging

25 kg paper sacks or 50lb paper sacks on request.

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