



Drilling Fluids, Inc.

DESCRIPTION

USES

BENEFITS

TREATMENT

FUNCTION

SUPER GEL

SUPER GEL is a peptized (Soda Ash, Benex), premium grade western bentonite used as a viscosifier and filtrate reducer in freshwater drilling fluids.

SUPER GEL is used where water is of questionable quality and where a simple one sack drilling fluid system is desired. **SUPER GEL** will develop greater (~50%) yield than GEO GEL for a given amount of material.

SUPER GEL develops superior shear thinning characteristics because of the reduced solids concentration required for a given viscosity. The fragile gel structures produced by **SUPER GEL** break easily when circulation is begun after trips. An economical product where transportation is expensive or where storage space is limited. Yields full viscosity within 4 to 5 minutes.

Additions of 12 to 15 ppb of **SUPER GEL** in freshwater will yield a funnel viscosity of 30 to 35 sec/qt. Make up water should be tested for total hardness and reduced to 100 ppm or less. A pH range of 8.5 to 11.5 is preferred.

SUPER GEL contains a uniform and extremely high yielding clay of the Montmorillonite family. It breaks down in water to finely divided platelets that have positive charges from imbedded cations on the face and negative charges along the edges from broken bonds. The shape and softness of the clay particles lends itself to fluid loss control. In a well stabilized liquid, one with deflocculants (DMA or OMNIPOL II) or dispersants (DESCO/DESCO CF, Lignite, or Lignosulfonate) the particles form a layered wall cake with minimal filtrate loss.

In untreated fluids (no deflocculant or dispersant) Yield Point and Gel Strengths are derived from the attraction of the positive and negative charges on the **SUPER GEL** as well as polymer enhancement. In addition, the finely divided material creates additional Plastic Viscosity. Savings in transportation are obtained by the use of polymer viscosifiers to enhance the natural properties of a bentonite slurry while using less clay mineral.

GEO Drilling Fluids, Inc.

1431 Union Avenue
Bakersfield, CA 93305

1-800-GETSGEO

(661)325-5919

geodf@geodf.com

For more info visit:

geodf.com





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TYPICAL PHYSICAL PROPERTIES

SAFE HANDLING RECOMMENDATIONS

PACKAGING

SUPER GEL

Appearance.....tan powder
Hygroscopic.....no pH
in water.....neutral Bulk
density......56 pcf Specific
Gravity.....2.6

Utilize normal precautions for employee protection chemical products. Use of appropriate equipment is recommended for employee comfort and protection. See Material Safety Data Sheet [MSDS] for this product prior to use.

SUPER GEL is packaged in 50 pound multiwall bags.

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