SL-Drill Gel-21 | Organic bentonite

Product Description

The product Drill-gel-21 is an organically modified bentonite used as a gelling and viscosifying agent for primarily diesel-based drilling fluids.

Drill-gel-21 is used in the 2-10lb/bbl (5.7~28.5kg/m³) range depending on the desired viscosity properties, mixing system, and temperature. Higher concentrations are used when preparing spotting fluids, packer fluids or other special systems. Maximum viscosity is normally attained after a complete circulation of the fluid thru the bit, so care must be taken not to over-treat upon initial mixing.

Technical Indicators

| Technical Indicators of SL-Drill Gel-21 |
|-----------------------------|-------------------|
| Item                        | Indicator         |
| Appearance                  | Buff to tan powder|
| Moisture,%                  | 2.0~5.0           |
| Sieve Analysis, /through 100esh | 75min             |
| YP, lb/100ft²              | 17minimum         |

Performance test procedure

2 diesel oil                  213.0gms (250cc)
Drill Gel 21                  10.0gms
Lime                         2.0gms
Branded Emulsifier           2.0gms
Branded Wetting Agent        2.0gms
Calcium Chloride            29.3gms
Water                        82.0cc

Preparation of base mud

Mix#2 Diesel oil with Lime, Branded Emulsifier and Branded Wetting Agent for 20 minutes on a Halmilton Beach mixer at 6000 rpm. Prepare calcium chloride bring separately by dissolving 29.3 grams of calcium chloride into 82.0 cc water. Add the bring to the oil phase while bring is still hot. Mix ring into oil slurry and shear for minimum of one hour at 11000 rpm.

Performance test procedure

1. Measure out 315.0 grams of base mud into a mixer cup. Add 10.0 grams of organoclay sample to be tested. Shear the samples for 20 minutes. During shearing, stop, mixer and scrap down the side of sample to insure all product is evenly mixed;

2. Determine the Fann Model 35 Meter readings at all six speeds at 120F in a Fann heater cup;

3. Record AV, PV, YP and 3rpm reading and report YP where YP=2°R300 reading-R600 reading.

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