BAROID BAROID

BIO-BORE™

Horizontal Directional Drilling Fluid Concentrate

Description

BIO-BORE™ free-flowing dry powder, when mixed with fresh water, provides a clay-free, biodegradable drilling fluid for use in various drilling applications, particularly in the situation where clay-based drilling fluids are restricted.

Applications/Functions

- Can provide a clay-free drilling fluid
- Can minimize formation damage
- Can maximize recovery rate of contaminants during remediation
- Can provide enhanced viscosity for hole cleaning
- Can provide high yield point and gel strength for effective suspension and transport
- Can reduce filtration rate in poorly consolidated formation
- Can improve borehole stability for easy well installation

Advantages

- Soluble in water and disperses easily with moderate shear
- Compatible with wide range of make-up waters
- Does not form filter cake on the wellbore
- Stable and yet biodegradable within a reasonable time frame depending on the surrounding environment
- Preserve with addition of small quantity of 5.25% sodium hypochlorite solution (½ to 1 pint per 100 gallons of BIO-BORE slurry)
- Breakdown chemically by calcium hypochlorite

Typical Properties

Appearance White powder
 Bulk density (lb/ft³) 42.5 (as packaged)

Specific gravity 1.2pH (4% solution or 15 lb/bbl) 6.4

Recommended Treatment

Recommended BIO-BORE Application Amounts		
Boring Applications	lb/100 gal	kg/m³
Normal Boring Conditions	25-30	30-36
Unconsolidated Formations	30-35	36-42

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Recommended Degradation Treatment

To bring about the degradation of a BIO-BORE slurry, utilize 1-2 pounds calcium hypochlorite (65% active) per 100 gallons of BIO-BORE slurry or 1.2-2.4 kg calcium hypochlorite (65% active) per m³ of BIO-BORE slurry.

Packaging

BIO-BORE concentrate is packaged in a 50-lb (22.7-kg) white, multiwall bag. The bag is sturdy, moisture resistant, and easy to handle and transport.

Safety

Drilled cuttings exposed to BIO-BORE concentrate should be treated with calcium hypochlorite to break down the polymers before the cuttings can be confined or stored in a vented, sealed container or drum.

Availability

BIO-BORE concentrate can be purchased through any Baroid Industrial Drilling Products Retailer. To locate the Baroid IDP retailer nearest you contact the Customer Service Department in Houston or your area IDP Sales Representative.

Baroid Industrial Drilling Products Product Service Line, Halliburton 3000 N. Sam Houston Pkwy E. Houston, TX 77032

 Customer Service
 (800) 735-6075 Toll Free
 (281) 871-4612

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