



QUIK MUD[®] D-50

Viscosifier/Borehole Stabilizer

Description

QUIK MUD[®] D-50 liquid polymer dispersion is a high-solids, partially-hydrolyzed polyacrylamide/polyacrylate (PHPA) copolymer used primarily as a viscosifier and borehole stabilizer to prevent reactive shale and clay from swelling and sloughing. QUIK MUD D-50 liquid polymer dispersion can be used to provide friction reduction, inhibition and lubricity in freshwater, KCl and saltwater-based drilling fluids.

Applications/Functions

The use of QUIK MUD D-50 liquid polymer dispersion assists and promotes the following:

- Enhanced viscosity development in freshwater drilling fluids
- Clay and shale stabilization to prevent swelling and/or dispersion
- Minimized rotational torque and circulating pressure
- Enhancement of air-foam system capabilities
- Enhanced core recovery in continuous wireline coring operations
- Handling of spoils in large diameter tunneling operations from cutter face by absorbing free water of saturated sediment

Advantages

- Mixes easily with minimum shear in fresh water
- Efficient shale/clay stabilizer and viscosifier
- Cost effective - small amounts produce desired results
- Breaks down chemically with bleach (sodium hypochlorite)
- Compatible with other Baroid drilling fluid additives when added in proper sequence
- Non-fermenting

Typical Properties

• Appearance	Milky white
• Specific Gravity @ 20 C (Water=1)	1.08 – 1.12
• Percent Activity	50%
• Bulk density @ 20°C, lb/ft ³	68.6
• pH of a 0.5% solution	6-8

Recommended Treatment

- Using a Venturi Mixer, or into vortex of a high-speed stirrer, add slowly and uniformly to the entire circulating system.

Approximate Amounts of QUIK MUD D-50 Liquid Polymer Added to Water-Based Fluids			
Drilling Application/Desired Property	Quart/bbl	Quart/100 gal	Liter/m³
▪ To Formulate a Clay-Free Drilling Fluid	0.5 – 1	1 – 2.5	2.5 – 6.5
▪ Added to QUIK GEL [®] viscosifier or BORE-GEL [®] drilling fluid	0.25 – 0.5	0.5 - 1	1.25 – 2.5
▪ To improve foam performance and hole conditions	0.25 – 0.5	0.5 – 1	1.25 – 2.5

Additional Information

- For optimum performance in freshwater applications the make-up water used to mix QUIK MUD[®] D-50 liquid polymer dispersion should meet the following quality:
total chloride less than 1500 ppm (mg/L)
total hardness less than 100 ppm as calcium
total chlorine less than 50 ppm
water pH between 8.5-9.5
- Reduce total hardness of make-up water by adding soda ash (sodium carbonate) at 0.5 to 1 pound per 100 gallons (0.6 - 1.2 kg/m³) of make-up water.

QUIK MUD D-50 liquid polymer dispersion can be chemically broken down with regular household liquid bleach (5% sodium hypochlorite). Use one gallon of liquid bleach per 100 gallons (10 liters/m³) of formulated fluid.

Do not use perfumed liquid bleach or solid calcium hypochlorite.

Packaging

QUIK MUD D-50 liquid polymer dispersion is packaged in 5-gal (19-liter) plastic containers.

Availability

QUIK MUD D-50 liquid polymer dispersion 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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