



EZ-MUD[®] GOLD

Clay/Shale Stabilizer

Description EZ-MUD[®] GOLD clay and shale stabilizer provides inhibition of clay and shale formations in water-based drilling fluids without substantially increasing viscosity. EZ-MUD GOLD stabilizer, when added to a QUIK-GEL[®] or BORE-GEL[®] slurry, yields an inhibitive drilling fluid system while maintaining manageable and effective fluid properties. The unique beaded structure of EZ-MUD GOLD stabilizer allows the material to be mixed easily at minimal shear thereby eliminating the need for liquid emulsions.

Applications/Functions

- Can enhance rheological properties of a low-solids drilling mud
- Can promote clay and shale stabilization to prevent swelling and/or dispersion
- Can promote borehole stability in water sensitive formations
- Can minimize rotational torque and circulating pressure
- Can promote enhancement of air-foam system capabilities
- Can enhance core recovery in continuous wireline coring operations

Advantages

- NSF/ANSI Standard 60 certified
- Unique physical structure allows for easy dispersion and mixing with minimal shear
- Allows for use of increased concentrations to gain inhibition without excess viscosity production
- No petroleum distillates present
- Breaks down chemically with bleach (sodium hypochlorite)
- Compatible with other Baroid drilling fluid additives when added in proper sequence
- Non-fermenting

Typical Properties

- | | |
|------------------------------------|---------------------------|
| • Appearance | White, free-flowing beads |
| • Bulk density, lb/ft ³ | 52 |
| • pH (1% aqueous solution) | 7.75 |

Recommended Treatment

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

Recommended Treatment (continued)

Approximate Amounts of EZ-MUD GOLD stabilizer Added to Water-based Fluids			
Desired Condition/Result			
Drilling Application/Desired Property	lb/bbl	lbs/100 gal	kg/m³
<i>Added to fresh water (to formulate a clay-free drilling fluid)</i>			
<ul style="list-style-type: none"> To help stabilize water sensitive formation To help reduce torque and lower circulating pressure 	0.25 - 1.0	0.6 – 2.4	0.7 – 2.9
<i>Added to QUIK-GEL® or BORE-GEL® drilling fluids</i>			
<ul style="list-style-type: none"> To help retard reactive shale and clay and enhance lubricity 	0.1 - 0.3	0.25 – 0.75	0.3 – 0.9
<i>Added to injection liquid in air/foam drilling applications</i>			
<ul style="list-style-type: none"> To help improve foam performance and hole conditions 	0.25 - 1.0	0.6 – 2.4	0.7 – 2.9

- Note:**
Make-up water used to mix EZ-MUD GOLD stabilizer 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.

EZ-MUD GOLD stabilizer 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 fluid formulated with EZ-MUD GOLD stabilizer.

Do not use perfumed liquid bleach or solid calcium hypochlorite.

Packaging EZ-MUD GOLD stabilizer is packaged in 10-lb (4.54-kg) and 40-lb (18.1-kg) plastic containers with re-sealable flip top lids.

Availability EZ-MUD GOLD stabilizer 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

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

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