



BAROID 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. EZ-MUD GOLD stabilizer can be mixed easily at minimal shear thereby eliminating the need for liquid emulsions.

Applications/Functions

The use of EZ-MUD GOLD stabilizer aids or promotes the following:

- Enhanced rheological properties of a low-solids drilling mud
- Clay and shale stabilization to prevent swelling and/or dispersion
- Borehole stability in water sensitive formations
- Minimized rotational torque and circulating pressure
- Enhancement of air-foam system capabilities
- Enhanced core recovery in continuous wireline coring operations

Advantages

- NSF/ANSI Standard 60 certified
- Easy dispersion and mixing with minimal shear
- Can be used at increased concentrations to gain inhibition without producing excess viscosity
- 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			
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.