



EZ-MUD® GOLD EU

Clay/Shale Stabilizer

Description

EZ-MUD® GOLD EU Clay and Shale Stabilizer provides inhibition of clay and shale formations in water-based drilling fluids without substantially increasing viscosity. EZ-MUD GOLD EU Clay and Shale Stabilizer, when added to a TUNNEL-GEL® PLUS or BARO-GEL® slurry, yields an inhibitive drilling fluid system while maintaining manageable and effective fluid properties. EZ-MUD GOLD EU Clay and Shale Stabilizer can be mixed easily at minimal shear thereby eliminating the need for liquid emulsions.

Applications/Functions

The use of EZ-MUD GOLD EU Clay and Shale 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

- 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 |
| • 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.

Approximate Amounts of EZ-MUD® GOLD EU Clay and Shale Stabilizer Added to Water Based Fluids	
Drilling Application/Desired Property	kg/m ³
<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	0.7 – 2.9
<i>Added to TUNNEL-GEL® PLUS or BARO-GEL® drilling fluids</i>	
<ul style="list-style-type: none">• To help retard reactive shale and clay and enhance lubricity	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	0.7 – 2.9

- **Note:**
Make-up water used to mix EZ-MUD® GOLD EU Clay and Shale 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 0.6 - 1.2 kg/m³ of make-up water.

EZ-MUD GOLD EU Clay and Shale Stabilizer can be chemically broken down with regular household liquid bleach (5% sodium hypochlorite). Use 10 liters/m³ liquid bleach of fluid formulated with EZ-MUD GOLD EU Clay and Shale Stabilizer. Do not use perfumed liquid bleach or solid calcium hypochlorite.

Packaging EZ-MUD GOLD EU Clay and Shale Stabilizer is packaged in 9-kg plastic containers with re-sealable flip top lids and 25-kg bag.

Availability EZ-MUD GOLD EU Clay and Shale Stabilizer can be purchased through a Baroid Industrial Drilling Products Retailer.

CEBO Holland, BV
Authorized Retailer, Baroid IDP
Westerduinweg 1
NL-1976 BV IJmuiden
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