



BAROID EZ-MUD® PLUS

Polymer Emulsion



Description EZ-MUD® PLUS liquid polymer emulsion contains partially hydrolyzed polyacrylamide/polyacrylate (PHPA) copolymer and is used primarily as a viscosifier and borehole stabilizer to prevent reactive shales and clays from swelling and sloughing. EZ-MUD PLUS is also added to low-solids drilling fluids to increase lubricity and to improve the carrying capacity of air/foam injection fluids. EZ-MUD PLUS polymer emulsion is a high molecular weight version of EZ-MUD polymer emulsion with improved properties.

Applications/Functions

The use of EZ-MUD PLUS polymer assists or promotes the following:

- Stabilize reactive shale and clay formations
- Improve borehole and excavation stability
- Enhance slurry rheological properties
- Alleviate mud rings, bit balling and booting-off in clay formations
- Reduce drill pipe torque and pumping pressure
- Minimize rod chatter in diamond core drilling
- Create "stiff-foam" and maintain foam integrity
- Flocculate non-reactive solids in reserve pit at low concentrations

Advantages

- Liquid form – mixes easily with minimum shear in fresh water
- Efficient shale/clay stabilizer and viscosifier
- Non-fermenting
- Cost-effective - small amounts produce desired results
- Breaks down chemically with bleach (sodium hypochlorite)
- NSF/ANSI Standard 60 Certified

Typical Properties

- Appearance Thick, opaque white liquid
- Density 8.33 lbs/gal (1.00 g/cm³)
- Flash point, PMCC °F, °C >200 (>93.3)
- Thermal stability, °F, °C 250 (121)

Recommended Treatment

Approximate Amounts of EZ-MUD® PLUS High Molecular Weight Polymer Emulsion Added to Water Based Fluids

Pints/bbl*	Quarts/100 gal	Liters/m ³
0.5 – 1.8	0.6 – 2.0	1.5 – 5.0

*1 bbl = 42 U.S. gallons

- It is recommended that Soda Ash (sodium carbonate) be added to the make-up water prior to the addition of EZ-MUD PLUS high molecular weight liquid polymer emulsion for reduction of excess calcium and pH adjustment.
- The above are generalized concentrations of EZ-MUD PLUS high molecular weight liquid polymer emulsion to be added to water-based drilling fluids. The ultimate usage concentration will be based on local geology, application and mixing efficiency. In the event that further information is needed, please refer to the Product Data Sheet or contact your local Baroid IDP representative.

Packaging EZ-MUD PLUS polymer emulsion is packaged in 5-gal (19-liter) plastic pail weighing 42-lbs (19-kg) and a 25-kg (55-lb) plastic pail.

Availability EZ-MUD PLUS polymer emulsion 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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