

POLY-BEN-L

BENTONITE EXTENDER/SELECTIVE FLOCCULANT

DESCRIPTION

POLY-BEN-L is an organic polymer designed for use as a bentonite extender and selective flocculant in freshwater drilling muds.

APPLICATION

Small dosages of POLY-BEN-L can greatly increase the viscosity yield of bentonite, allowing preparation of low-solids muds with only about half the normal concentration of bentonite. Although POLY-BEN-L will double the yield of most bentonites, some high-quality bentonites (such as Mesuco-Puregel) display up to a quadrupled viscosity yield when treated with POLYBEN-L.

In addition to bentonite extension, POLY-BEN-L functions as a flocculant for low-yield drilled solids. This action assists in solids removal, helping to maintain the drilling mud in a low-solids condition, contributing to rapid drilling.

ADVANTAGES

1. High efficiency. Low dosage requirements.
2. Extreme ease of mixing and superior dispersibility in drilling fluids, due to liquid form. Easier to use than powdered bentonite extenders.
3. Maintains low-solids muds, promoting rapid drilling.
4. Superior performance versus Ben-Ex and other competitive products.

RECOMMENDED TREATMENT

Initial dosage ranges from 0.01 to 0.05 ppb ($0.03\text{-}0.14 \text{ kg/m}^3$), and will vary with characteristics of bentonite in use. Add extra POLY-BEN-L as drilling progresses to react with drilled solids and also during barite additions. Extension response of high-quality API-type bentonites which have not been pre-treated during manufacture (with polymers or soda ash) will normally be superior to pre-extended clays. For best performance, remove hardness from makeup water. Very small ($0.2 \text{ ppb}/0.6 \text{ kg/m}^3$) treatments of soda ash will sometimes improve performance.

PACKAGING

POLY-BEN-L is packaged in convenient plastic bottles or cans containing 2 lb liquid. 1 kg net containers are also available.

POLY-BEN-L is a Messina trademark