

BEN-TROL

BENTONITE EXTENDER

General Description

BEN-TROL is a synthetic, acrylate based, low molecular weight and highly anionic co-polymer that is to increase the yield of bentonite while selectively flocculating low-yield drilling solids.

Features and Benefits

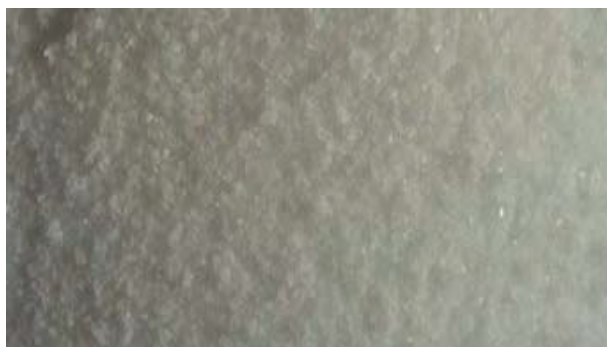
Small dosage will increase the yield of bentonite
Flocculates low yield of solids selectively
Boosts penetration rate
Reduce overall drilling costs
Cost competitive

Application Information

BEN-TROL can be used at bentonite milling plant and drilling field/ on site.

A....Milling plant: It is common practice to add a very small amount of bentonite extender polymer to the bentonite ore, and ensure the bentonite to achieve API or higher standard. Normally dosage of BEN-TROL is 0.1-1.0 % of bentonite, and pilot test is highly recommended as dosage is much depending on quality of bentoite ore.

B....Drilling field: BEN-TROL will extend the yield of bentonite in fresh water non-dispersed fluids and it also helps control the build up of low density drilled solids by aggregation and encapsulation.
Add BEN-TROL slowly through hopper with bentonite. Recommended dosage is about 0.15 kg per 1000 liter, which is about 2-lb bag of BEN-TROL for 5-8 bags 100-lb sacks of bentonite added. For best performance, maintain the calcium level of the make-up water below 200 ppm by treating it with soda ash. After the calcium reduced, pH can be increased up to 10.5 with caustic soda.



Physical Properties

Appearance.....White flowing powder
Anionic charge.....Very High
Molecular weight.....Low
pH 1% solution.....6.5
Bulk Density.....750 kg/ m³

Safety and Handling

This product is chemically safe. Avoid eyes, skin and dust contact. Use dust mask, rubber or neoprene gloves and goggles. Please refer to MSDS.

Packaging

1kg (≈2 lb) bag, 25 bags per quality paper carton;
Or 25kg net in sack, 30 sacks per pallet. Or as per client requirement.

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350 ml distilled water

22.5 g clay – Wyoming sodium bentonite

Mixing 20 minutes by Hamilton

Dosage	600 RPM	300 RPM
0.00g	7.5	5.5
0.02g	45	29.5

