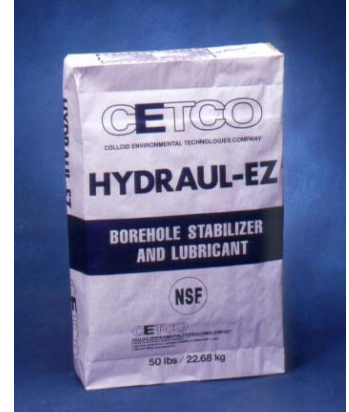




TECHNICAL DATA

Hydraul-EZ[®]

Horizontal Directional Drilling Fluid



Description: Hydraul-EZ[®] is a high yield, 200-mesh sodium bentonite clay with a special dry polymer additive. It is designed to maintain borehole integrity in horizontally drilled boreholes. Hydraul-EZ is certified to NSF/ANSI Standard 60, Drinking Water Treatment Chemicals - Health Effects.

Recommended Use: Hydraul-EZ[®] is specially designed for conditions encountered in angle and horizontal drilling. It can be used for all types of freshwater mud rotary drilling and as a jacking lubricant.

Characteristics:

- Mixes quickly.
- Requires less material due to low fluid loss properties.
- Concentrated for high yield.
- Forms a tight, thin filter cake in unstable formations.
- Maintains borehole integrity in horizontal and vertically drilled holes.
- Eliminates clay and shale swelling, bit balling and sticking problems.

Mixing and Applications: Mixing ratios are based on the use of fresh water. Water purity will affect bentonite performance. For best results, make-up water should be pre-treated with soda ash to a pH of 8.5-9.5. Hydraul-EZ[®] should be added slowly through a jet/hopper mixer.

Hydraul-EZ[®] mixing ratios in pounds per 100 gallons of water:

Normal conditions.....20-30 lbs.
Sand and gravel.....30-40 lbs.
Fluid loss control.....40-60 lbs.

Bulk Density: 54 lbs/ft.³

Packaging: 50 lb. multiwall, water-resistant bags, 48 bags per pallet. All pallets are plastic-wrapped.