

Poly-Bore™

Category: Drilling fluids

Borehole stabilizing dry polymer

POLY-BORE™ is a free flowing, water-soluble, easy mixing, 100% dry granular polymer. POLY-BORE™ is a very high molecular weight partially hydrolyzed polyacrylamide (PHPA) polymer. When mixed with fresh water, a small quantity of POLY-BORE™ provides a clear, solid-free, viscous borehole stabilizing fluid for use in drilled shaft, auger drilling, horizontal directional boring, trenching excavation and reverse circulation (RC) rotary drilling. POLY-BORE™ is not designed to be used in conjunction with bentonite-based fluids.



Applications/Functions

- Provide a clay-free boring fluid
- Stabilize reactive clay and shale formations
- Enhance core recovery in continuous wireline coring operations
- Provide high cohesiveness to bind excavated sandy soil and gravel
- Facilitate the removal of drilled spoils from augers and increase excavation rate
- Maximize load transfer for drilled shaft application

Advantages

- Disperses easily with minimal shear
- Efficient shale/clay stabilizer and viscosifier
- Does not require solids control unit to clean the slurry
- Promotes stable and gage borehole
- Results in maximum skin friction and ultimate end bearing capacity for a drilled shaft
- Non-fermenting
- No petroleum distillates involved
- Breaks down chemically with bleach (sodium hypochlorite)
- NSF/ANSI Standard 60 certified

Recommended Treatment

Drilling

- Add 0.5 to 1 pound of POLY-BORE dry polymer per 100 gallons of fresh water (0.6 - 1.2 kg/m³) slowly through the hopper. (See Mix Instructions below)

Mix Instructions

- 15 to 20 minutes to allow POLY-BORE to hydrate
- Measure the funnel viscosity of the polymer slurry and adjust according to required specifications

Notes

- Water pH between 8.5 – 9.5
- Reduce total hardness of make-up water by adding soda ash (sodium carbonate) at 0.5 to 1 pound per 100 gallons (0.6 - 1.2 kg/m³) of make-up water

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