



FREDERICK SALES, LLC

Products for Agri-Business

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EXTRA HIGH YIELD™ BENTONITE has a Higher Performance formula that makes it very effective. This premium grade beneficiated Wyoming Bentonite is designed for use in mineral exploration, water well and directional drilling operations. EXTRA HIGH YIELD™ BENTONITE is an efficient viscosifier that performs well in a variety of water qualities and successfully reduces application rates, and mixes easily and quickly. EXTRA HIGH YIELD™ BENTONITE is listed with the National Sanitation Foundation for use in potable water well construction.

HIGH YIELDING BENTONITE VISCOSIFIER:

- 220 to 235 barrel yield.
- Mixes rapidly for fast hydration.
- Carries cuttings in mud with lower solids content.
- Enhances fluid loss characteristics; reduces seeping into permeable formations.
- Assists in bore hole stabilization.
- Helps eliminate loss circulation conditions.



DRILLING FLUID PREPARATION

Always adjust make-up water in tank to a pH of 8 to 9 before adding bentonite and/or polymer. Public water supplies often have a pH of only 6.5 to 7. Start by adding 6 oz. of soda ash to 300 gallon and add more as required to maintain a pH of 8 to 9. Add EXTRA HIGH YIELD™ BENTONITE to reach the desired initial funnel viscosity, then add UNI-DRILL® liquid polymer for final desired funnel viscosity. In most cases begin at a 40 to 45 second initial viscosity, then add UNI-DRILL® to bring the viscosity up to 45 to 50 seconds. Below are more specific mixing instructions for various drilling conditions using a 300-gallon mud pit.

CLAY - Soft or Hard (You want lower viscosity and lower fluid loss.)	
Soda Ash	Add about ¼ lb to get pH level of 8 - 9
EXTRA HIGH YIELD™	Add 1 +/- bag for funnel viscosity of 30-35 seconds
UNI-DRILL®	Add 3 - 4 quarts to bring final viscosity to 40-45 seconds
SAND - Wet or Dry (You want higher funnel viscosity and moderate fluid loss.)	
Soda Ash	Add about ¼ lb to get pH level of 8 - 9
EXTRA HIGH YIELD™	Add 1½ - 2 +/- bags for funnel viscosity of 45-55 seconds
UNI-DRILL®	Add 2 - 3 quarts to bring funnel viscosity to 55-65 seconds
UNKNOWN OR MEDIUM SOILS (You want moderate viscosity and moderate fluid loss.)	
Soda Ash	Add about ¼ lb to get pH level of 8 - 9
EXTRA HIGH YIELD™	Add 1 ½ bags for funnel viscosity of 35-40 seconds
UNI-DRILL®	Add 3 - 4 quarts to bring funnel viscosity to 45-55

This product is designed to be flushed out of the well bore prior to using the well for drinking water. Before placing a well in service for drinking water it is to be properly flushed and drained until the turbidity of the water is <NTU above ambient turbidity. (See THINZ-IT® for well completion.)

EXTRA HIGH YIELD™ BENTONITE is packaged in 50 pound, multi-walled paper bags.