



## EXTRA HIGH YIELD BENTONITE

EXTRA HIGH YIELD BENTONITE has a New 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. It 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 # 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 # 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** — 1/4 # to get ph level to 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 seconds.

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

*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.*