



# HYDROGEL® PLUS

## Product Information

### Description

**HYDROGEL® PLUS** is a High Performance Bentonite with a unique formula making it a very effective viscosifier. This premium grade beneficiated Wyoming Bentonite is specifically designed for use with mud recycling systems on large HDD Bores. **HYDROGEL® PLUS** BENTONITE is an efficient viscosifier, performs well in a variety of water qualities, successfully reduces application rates, mixes quickly and produces a durable long lasting drilling fluid.

### Characteristics

High Yielding Bentonite Viscosifier

- 185 to 200 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
- Improves mud recycling capabilities

### Application

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 1 lb. of soda ash to 1000 gallons, add more as required to maintain a pH of 8 to 9. Add **HYDROGEL® PLUS** 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 1000-gallon mixing tank.

<b>CLAY – Soft or Hard</b> <i>(You want lower viscosity and lower fluid loss.)</i>	
Soda Ash	Add about 1 lb to get pH level of 8 - 9
<b>HYDROGEL® PLUS</b>	Add 2 +/- bag for funnel viscosity of 30-35 seconds
<b>UNI-DRILL®</b>	Add 9 - 10 quarts to bring final viscosity to 40-45 seconds
<b>SAND – Wet or Dry</b> <i>(You want higher funnel viscosity and moderate fluid loss.)</i>	
Soda Ash	Add about 1 lb to get pH level of 8 - 9
<b>HYDROGEL® PLUS</b>	Add 3 - 4 +/- bags for funnel viscosity of 45-55 seconds
<b>UNI-DRILL®</b>	Add 5 - 7 quarts to bring funnel viscosity to 55-65 seconds
<b>UNKNOWN or MEDIUM Soils</b> <i>(You want moderate viscosity and moderate fluid loss.)</i>	
Soda Ash	Add about 1 lb to get pH level of 8 - 9
<b>HYDROGEL® PLUS</b>	Add 3 bags for funnel viscosity of 35-40 seconds
<b>UNI-DRILL®</b>	Add 13 quarts to bring funnel viscosity to 45-55

### Packaging

**HYDROGEL® PLUS** is packaged in 50 pound, multi-walled paper bags.