

EXTRA HIGH YIELD BENTONITE

BASE FLUID FOR WATER-BASED DRILLING FLUIDS

Extra High Yield Bentonite is used as the base fluid for many water-based drilling fluids. While Extra High Yield Bentonite's primary function is to provide viscosity, it also exhibits gelling properties characteristic of fluid loss control agents.

Extra High Yield Bentonite has a higher performance formula that makes it a very effective viscosifier. It 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, successfully reduces application rates, mixes quickly and easily.

Application	Concentration (lb/100 gal)
Make up fluid (with polymer addition)	10-15
Normal drilling	15-25
Unconsolidated formations	25-40
Lost circulation	35-50

PHYSICAL PROPERTIES:

Appearance: Light tan - grey powder
Relative Density (water=1): 2.45-2.55

CHEMICAL PROPERTIES:

Type: Viscosifier
Solubility: Insoluble
pH: 8.0-10.0

MIXING & HANDLING

Extra High Yield Bentonite is dry clay and therefore requires high shear and agitation for proper hydration. It should be mixed no faster than five minutes per sack and should always be mixed before polymers. Cold water increases mixing time.

Extra High Yield Bentonite loses effectiveness in hard, low pH or salt water. To achieve the maximum yield of 220-235 bbl, the makeup water should be treated with soda ash (sodium carbonate) to a pH of 8.0-9.0. Do not use salt water since it cannot be treated.

WHMIS: Controlled (see MSDS)

TDG: Not regulated

Packaging: 50lb/bulk multi-wall paper sack

