

# Drilling Fluids - Hi Yield Bentonite

## Hi Yield Bentonite



Product Number: 9410001

## Applications

Hi Yield Bentonite is used to rapidly build mud viscosity and provide superior hole cleaning, as well as to help control lost circulation, formation sloughing and promote hole stability in unconsolidated formations.

Typical uses are in:

- Potable-water wells
- Mineral exploration (coring and rotary drilling)
- Horizontal directional drilling; construction and gel-foam air drilling operations

## Advantages

- 93% passing through 200 mesh grind specification ensures rapid hydration with limited mixing equipment
- Yields more quickly than API-standard bentonite; increased penetration rates due to lower solids content than standard API bentonite systems; non-toxic and proven suitable for use in drilling potable water wells.
- Transportation and storage costs are reduced due to lower treatment requirements a compared to API bentonite

HI YIELD BENTONITE is a premier ultra fine grind bentonite blended with special extenders, producing a product that will yield more than twice as much viscosity as API Wyoming bentonite. Hi Yield Bentonite is an easily mixed bentonite for freshwater and extended bentonite systems.

## Typical Physical Properties

Physical appearance	Light tan/ gray-green powder
Specific gravity	2.3 – 2.5
Approximate yield	210 bbl/ton

## Packaging and Storage

Hi Yield Bentonite is supplied in 50 lb/22.7 kg, multi wall bags at 70 bags per pallet. Store in a dry location (slip hazard when wet) and minimize dust (use dustless systems for handling, storage and cleanup).

Typical Amounts of Hi Yield Bentonite Added to Freshwater

Drilling Application/Desired Results	lb/100 gal	lb/bbl	Kg/m3
Normal drilling	15 - 25	6 - 11	15 - 30
In gravel or other poorly consolidated formation	25 - 40	12 - 18	35 - 50
Lost-circulation control	35 - 45	15 - 20	40 - 45
Added to freshwater mud to improved hole-cleaning properties, increase hole stability and develop filter cakes	5 - 10	2 - 5	6 - 14

