



## Product Information

### Gel (Bentonite - ABI Untreated)

#### GENERAL DESCRIPTION

Bentonite - ABI Untreated is a very high quality natural sodium bentonite selectively mined to meet API-13A specifications for untreated bentonite (with no additives).

#### FEATURES AND BENEFITS

Bentonite - ABI Untreated may be used in all types of fresh water mud rotary drilling.

##### *Characteristics:*

- Fast and easy mixing
- Reduces solids / increases lifting power
- Removes cuttings
- Cools and lubricates bit
- Stabilizes boreholes
- Helps prevent loss of circulation

#### RECOMMENDED TREATMENT

Treatment rates will vary depending on the desired rheological properties.

The level of water purity will affect bentonite performance. Prior to mixing, acidic and hard water should be treated with soda ash to a pH of 8.5 to 9.0.

For best results, add Bentonite - ABI Untreated through a jet / hopper mixer.

#### TYPICAL PHYSICAL PROPERTIES

YP/PV ratio	1.5 max
PV	10 min
Filtrate	12.5 max
Moisture	10% max

Reference API-13A Section 5.

##### *Typical Chemical Analysis:*

SiO <sub>2</sub>	61.3%	Na <sub>2</sub> O	2.2%
Al <sub>2</sub> O <sub>3</sub>	19.8%	TiO <sub>2</sub>	0.1%
Fe <sub>2</sub> O <sub>3</sub>	3.9%	MgO	2.3%
CaO	0.6%	K <sub>2</sub> O	0.4%

Trace Elements	3.2%
H <sub>2</sub> O (Crystal)	6.5%

#### HANDLING

Bentonite - ABI Untreated is classified as a D2A controlled product using the WHMIS classification. Refer to MSDS information for specific precautions and handling.

#### AVAILABILITY

Bentonite - ABI Untreated is available in 40kg sacks from HiTech Fluid Systems Ltd.