

ORGANOPHILIC CLAY**GENERAL INFORMATION**

Bentonite-organophilic clay, a viscosifier and gelling agent.

Bentonite is used to increase carrying capacity and suspension properties of mud, providing support for weight materials and improved cuttings removal.

Bentonite also aids in filter-cake formation and filtration control.

TYPICAL PHYSICAL PROPERTIES

Physical appearance	Light tan free flowing powder
Specific gravity	1.8
Temperature stability	200°C (392°F), decomposes

APPLICATION

Bentonite is used to increase yield point, 3 RPM reading and gel. It has proven effective in drilling, coring, workover and completion fluids. The product is also effective in specialty applications such as casing packs, packer fluids and spotting fluids. Good agitation and sufficient shear are required to develop viscosity when using Bentonite to build fresh mud.

Typical concentrations range from 6 to 29 kg/m³ (2.1 to 10.2 lb/bbl.) for most drilling applications, depending on the base fluid and system requirements.

Care should be taken not to overtreat with Bentonite until the fluid has actually circulated through the well. For system maintenance, Bentonite should be added as needed to maintain the flow properties and gel strengths in the desired ranges.

ADVANTAGES

- Provides gel structure and viscosity for the suspension of weight materials
- Increases viscosity for improved hole-cleaning capacity
- Improves filter-cake quality and filtration characteristics
- Effective gelling agent in casing packs and packer fluid

HANDLING

Dust mask and goggles are recommended when handling.

Bentonite does not have a restricted classification for transportation.

STORAGE

Bentonite should be stored dry at ambient temperature.

PACKAGING

Bentonite is packaged in standard pack unit: 25 kg sack. Other pack unit: on request.