

## BENTOSUND 120E 45S®

Special formulation based on a selection of additives & natural sodium bentonite specifically designed to be used for a foundation engineering works in every type of soils as

1. diaphragm walls,
2. Barrettes
3. bored piles

It has been engineered to build strong mud viscosity in a fast way, providing a superior hole cleaning thanks to a high gel strength. Moreover, it is recommended in keeping under control lost circulation and formation sloughing, while promoting hole stability in unconsolidated formations. The specific function as a primary filter-cake-building, filtration-control and as suspension agent in freshwater or recycled water is particularly adapted to the different applications even in case of massive seawater and calcium contaminations.

### Specific advantages and benefits

- Provides shale control and lubricity with minimal viscosity increase (during contamination)
- Working with any type of drilling equipment
- Hydrates more than other types of Bentonite and is best for developing gels for suspension and controlling filtration
- Small particle size, unique flat shape and high surface area of hydrated

- Provides superior filtration values.
- Promotes the deposition of thin, compressible filter cakes in the bore
- Fast swelling
- Effective across a wide pH range
- Grouting effects
- Good filtration properties
- Low consumption
- Low sensitivity to contaminants (especially soil, salt and cement)
- Stable even at low usage concentrations (up to 30 kg/mc)

### Application

BENTOSUND 120E 45S is specifically set-up for special foundation works in all kind of soils. Dosage changes according to the kind of use and to stratigraphy.

*Approx. Amounts in freshwater*

- normal drilling conditions 35-40 Kg/m<sup>3</sup>
- unconsolidated Form. 40-45 Kg/m<sup>3</sup>
- Seawater Contamination 45-50 Kg/m<sup>3</sup>

### Preparation

Mix with water using a high efficient mixer. To get best properties at least 6 hours of aging are required. Keep the mud in circulation during the use.

### Packing Storage and Disposal

25 kg paper bags and jumbo bags  
Keep the product in a dry place and closed in original packing.

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