

**Construction Technologies  
Civil Engineering, Drilling & Tunnelling**

## BENTOSUND H-GEL®

Selected high yield sodium based bentonite with an optimized GEL profile, especially designed for freshwater drilling and boring applications in vertical and horizontal borings. It has been engineered to build massive mud viscosity rapidly and provide superior hole cleaning thanks to a extremely high gel strength. Moreover, it can give is highly effective in helping control lost circulation and formation sloughing, while promoting hole stability in unconsolidated formations.

GENERAL AND RHEOLOGICAL CHARACTERISTICS	
Wet screen analysis (residue on 200 mesh)	0,5 – 1 %
Moisture	11 – 13 %
Liquid limit	> 600 %
Physical state	Fine powder
Colour	Brown
Yield (API 13B)	260- 270 bbl / sh.ton
pH	8,7-10,7
Bleeding after 24 hours	0

Approx. Amounts of Bentosund H-Gel in freshwater	Kg/m3
Normal drilling conditions	12-20
Unconsolidated Formations	20-30
Caving Formations & Loss Circulations	20-30
Make up for Gel/fFoam Systems	14-20

### Specific advantages and benefits

- Cost effective: Yields up to 3 times more than a standard grade bentonite
- Strong gelling capability
- Working in about every type of soil
- Environment friendly & Atoxic
- Suitable for use in drilling water wells
- Excellent carrying capacity
- Easy desanding
- Low solid content & optimized grain size: Easy to mix & quick hydration for max viscosity

### Application

Bentosund H-Gel® is specially suggested

1. Horizontal directional drilling
2. Shaft drilling
3. Water well drilling
4. Microtunnelling
5. Gel foam air drilling
6. Pipejacking
7. Mineral exploration and sampling

### Preparation

Mix with water using a high efficient mixer (min.5 minutes). Keep mud in circulation during use.

### Packaging & Storage

Jumbo bags & 25 Kg paper/valve bags  
Keep the product in a dry place and closed in original packing

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