

Technical Data Sheet

BENTONIL® GTC4



Description

BENTONIL® GTC4 is a high yielding, high quality bentonite with well-balanced rheological profile, designed to fit with all necessities of diaphragm walling, piling and similar applications

PT. CLARIANT ADSORBENTS INDONESIA
BU FUNCTIONAL MINERALS

Jl. Raya Narogong Km.
14 Pangkalan 10, Desa Limusnunggal
Cileungsi 16820
West Java/ Indonesia
www.clariant.com

Main Applications

- Diaphragm walls
- Bored piling
- Slurry shield tunneling
- Pipe Jacking and HDD

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Mud and product specification (*)

EDITION
June 2014

| | |
|-----------------------------|---------------|
| Marsh viscosity | min. 42 [sec] |
| Filtrate (30 min) | ≤ 20 [ml] |
| Decantation (24 h) | < 1 % |
| Wet screen analysis (75 µm) | < 4 % |
| Water content | 11 ± 3 |

* Obtained with 45 g/l tap water, mixed at 1500 rpm during 3 min, and after 1 h ageing at 20 °C.

Indicative rheological performance after 1h ageing (**)

| BENTONIL® GTC4 | Marsh Viscosity (API) | Mud density [t/m³] | Filtrate (ISO 13500) |
|----------------|-----------------------|--------------------|----------------------|
| 30 kg/m³ | 32 – 34 s | 1.015 | < 25 ml |
| 40 kg/m³ | 36 - 43 s | 1.020 | < 22 ml |
| 50 kg/m³ | 45 - 55 s | 1.026 | < 20 ml |

** No guaranteed values because the properties are strongly dependent on water quality and mixing procedures.

Instruction for use

The recommended dosage range varies from 30 – 60 kg/m³ and should be adjusted according to the local ground and water conditions applicable. Standard dosage is 45 kg/m³ of water. Water should satisfy minimum standards of quality. It is necessary to apply enough shear during mixing to ensure the correct hydration of the bentonite. To reach good rheological values we recommend a minimum swelling time of 4-6 hours. BENTONIL® GTC4 could be modified by our SC-additives. Contact your CLARIANT technical representative for any further technical information.

Packaging

packed in 25 kg paper bags, 1000 kg big-bags.

Storage and stability

Keep the product in its original packaging at ambient temperature and protect it from humidity. A loss of rheological and filtrate properties may result from inadequate storage

Related document:

MSDS and application sheet on demand.

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