

Technical Data Sheet

BENTONIL® CF



Description

BENTONIL® CF is a standard sodium bentonite for a wide range of civil engineering applications.

PT. CLARIANT ADSORBENTS INDONESIA
BU FUNCTIONAL MINERALS

Main Applications

- Diaphragm walls
- Bored piling
- Slurry shield tunneling
- Microtunnelling
- Vertical drilling
- Grouting Works

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Mud and product specification (*)

Marsh viscosity (API)	min. 42 [sec]
Yield Point (YP)	≥ 17lb/100ft ²
Filtrate (30 min)	≤ 20 [ml]
Decantation (24 h)	< 1 %
Wet screen analysis (75 µm)	< 4 %
Water content	11 ± 3

* Obtained with 60 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® CF	Marsh Viscosity (API)	Filtrate (ISO 13500)
40 kg/m ³	33 – 36 s	< 30 ml
50 kg/m ³	36 - 40 s	< 25 ml
60 kg/m ³	40 - 55 s	< 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 50 – 70 kg/m³ and should be adjusted according to the local ground and water conditions applicable. Standard dosage is 60 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® CF 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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