

# Technical Data Sheet

## BENTONIL® HDG



### Description

BENTONIL® HDG is a very high yielding, sodium bentonite with well-balanced rheological profile, designed to meet the requirements of horizontal and vertical drilling applications.

CLARIANT (MEXICO) S.A.  
BU FUNCTIONAL MINERALS  
BL ADSORBENTS  
BUSINESS GROUP CIVIL ENGINEERING

### Main Applications

- Horizontal Directional Drilling
- Pipe Jacking

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### Mud and product specification (\*)

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Yield Point (YP):	≥ 25 lb/100ft <sup>2</sup>
Fann-Value at 6 rpm	≥ 14
Filtrate (30 min)	≤ 25 [ml]
Plastic Viscosity	5-15 mPa
Wet screen analysis (75 µm)	< 2,0 %
Water content	< 15 %

EDITION  
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\* Obtained with 30 g/l tap water, mixed at 11000 rpm during 10 min, and after 1 h ageing at 20 °C.

### Indicative rheological performance after 1h ageing (\*\*)

BENTONIL® HDG	Marsh Viscosity (API)	Yield Point (YP)
20 kg/m <sup>3</sup>	38 s	8 lb/100ft <sup>2</sup>
25 kg/m <sup>3</sup>	44 s	15 lb/100ft <sup>2</sup>
30 kg/m <sup>3</sup>	54 s	25 lb/100ft <sup>2</sup>
35 kg/m <sup>3</sup>	69 s	40 lb/100ft <sup>2</sup>
40 kg/m <sup>3</sup>	>100 s	60 lb/100ft <sup>2</sup>

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

## Instruction for use

The recommended dosage range varies from 20 – 40 kg/m<sup>3</sup> and should be adjusted according to the local ground and water conditions applicable. Standard dosage is 25 kg/m<sup>3</sup> 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® HDG could be modified by our SC-additives. Contact your CLARIANT technical representative for any further technical information.

## Packaging

packed in 25 kg paper bags, 650 or 950 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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