

# Technical Data Sheet



## Description

BENTONIL® API is a sodium bentonite conforming fully to the requirements of API Spec 13A, section 9.  
The yield of the bentonite is minimum 90 bbls/ton in distilled water.

License number: **13A-0041**

## Main Applications

- Oil Well and Industrial Drilling

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## Mud and product specification (\*)

Fann-Value at 600 rpm	≥ 30
Yield point/ Plastic Viscosity Ratio	≤ 3
Filtrate 2 x (30-7.5 min)	≤ 15 [ml]
Wet screen analysis (75 µm)	≤ 4 %
Water content	≤ 10 %

\* Tested according API RP 13B-1 at 22.5/ 350 ml

EDITION  
July 2015

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

BENTONIL® API	After 1 hour ageing		After 24 hours ageing	
	Marsh. Viscosity API (*)	Filtrate ISO 13500 (**)	Marsh Viscosity API (*)	Filtrate ISO 13500 (**)
50 kg/m <sup>3</sup>	36 to 40 sec.	< or = 25 ml	36 to 45 sec.	< or = 25 ml
60 kg/m <sup>3</sup>	40 to 55 sec.	< or = 20 ml	42 to 60 sec.	< or = 20 ml

(\*) Volume poured is 946 ml

(\*\*) Filtrate is twice the volume collected from 7, 5 to 30 minutes

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

## Instruction for use

The dosage range varies from 40 – 60 kg/m<sup>3</sup> and should be adjusted according to the local ground and water conditions applicable. Standard dosage is 45 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 1-2 hours.

BENTONIL® API 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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