



Product Data Sheet

CEBOGEL® QSE

Construction

CEBOGEL® QSE composes cylindrical pressed Bentonite rods made from 100% sodium-activated Bentonite and is characterized by its impressive water absorption capacity. **CEBOGEL QSE** is effectively used to restore drilled clay layers and to lower permeability of dams and dykes during restoration and construction. In HDD operations, a key feature of **CEBOGEL QSE** is its ability to rapidly swell when in contact with water, enabling the product to form a clay plug in the entry or exit pit, resulting in fast and efficient sealing. **CEBOGEL QSE** works effectively in slightly brackish water.

Advantages

- Restores clay layers
- Rapid sealing & swelling
- High water absorption capacity
- Easy to install

Typical Properties

Parameter	Test method / In accordance with	Required
Moisture content	% on wet / Halogen 150°C	≤ 20%
Grain size	Length	5 – 20 mm
	Diameter	5 – 7 mm
Specific density	-	≈ 2600 kg/m ³
Bulk density	-	≈ 1100 kg/m ³
Smectite content	XRD	≥ 70%
Methylene blue	VDG P69	≥ 300 mg/g
Plate water absorption	ASTM E946-92	≥ 650%

In so far as we can ascertain, the above-stated information is correct. However, we are unable to provide any guarantees with regard to the results that you will achieve with this. This specification is provided on the condition that you determine yourself to what degree it is suitable for your purposes.

Typical Properties (continued)

<u>Parameter</u>	<u>Test method / In accordance with</u>	<u>Required</u>
Permeability (k-value)	CUR, via Tri-axial cell	1×10^{-12} (m/s)
Sinking speed in water	-	17 m/min
Density saturated in water	-	1,55 t/m ³
Swell	-	220%

Certification & Accreditation.

- CEBOGEL QSE is delivered with the KIWA Water Mark certificate.



Recommended Use

Slow, careful and even dosing is required for an optimal result. Bridging can occur in the event of dosing too rapidly. Preferably install through a tremie-line in Vertical Drilling operations.

CEBOGEL QSE is available in 25 kg bags and 1000 kg Big Bags.

Version; 04-2023

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