

# Product Data Sheet

# CEBOGEL®

# QSE Plus



**CEBOGEL® QSE Plus** composes cylindrical pressed Bentonite rods made predominantly from sodium-activated Bentonite and is characterized by its impressive water absorption capacity. CEBOGEL QSE Plus is 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 Plus is its ability to rapidly swell when in contact with water, enabling to form a clay plug in the entry or exit pit, and resulting in fast and efficient sealing. CEBOGEL QSE Plus works effectively in slightly brackish water.

## Advantages

- High water absorption and swelling capacity enables rapid formation of low-permeability barriers
- Cylindrical pressed rods ensure easy handling and controlled placement in restoration and sealing applications

## Typical Properties

Parameter	Test method / In accordance with	Required
Moisture content	% on wet/Halogen 150°C	≤ 20%
Grain size	Length Diameter	5 – 20 mm 7 – 9 mm
Specific density	-	≈ 2600 kg/m <sup>3</sup>
Bulk density	-	≈ 1100 kg/m <sup>3</sup>
Smectite content	XRD	≥ 60%
Methylene blue	VDG P69	≥ 300 mg/g
Plate water absorption	ASTM E946-92	≥ 650%
Permeability (indicative)	DIN 18130 (part 1)	1 x 10 <sup>-10</sup> (m/s)
Swelling pressure (Indicative)	Compression test	25 kN/m <sup>2</sup>

## Certification & Accreditation

CEBO QSE Plus complies with BRL 5079 and is certified under the BSB® Product Certificate K-0226544-1.

## 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 Plus is available in 25 kg bags and 1000 kg big bags.**

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\*As far as we can judge, the above information is correct. However, we cannot give you any guarantees about the results you will achieve with this. This description is offered to you on the condition that you decide for yourself to what extent it is suitable for your purposes.