



# Product Data Sheet

# Cebogel QSE

## Application

**Repair of drilled-through or damaged clay layers, securing explosives, making dams water impermeable, rapid sealing of damaged wells.**

## Description

**Cebogel QSE** is composed of cylindrical bentonite rods (granules) made of 100% activated sodium bentonite. A characteristic of **Cebogel QSE** is its considerable water absorption capacity, which allows it to swell up considerably when in contact with water. The QSE quality is KIWA certified in the field of toxicological aspects, and complies with the requirements of the KIWA Quality BRL KQ-265/02. **Cebogel QSE** is delivered with the KIWA Water mark certificate.

## Advantages

Cebogel QSE has the following advantages;



### KIWA Water mark certificate K1007

Cebogel QSE has the KIWA K1007 certificate and complies herewith with the requirements of the regulation "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" which was implemented in 2011.

### Extra swelling capacity

Cebogel QSE is composed of pressed bentonite rods which have extra swelling capacity for sealing of irregularities in the borehole wall or difficult to reach cavities.

### Watertight layer

Cebogel QSE is made of activated sodium bentonite. This ensures a strong, virtually watertight layer which can make dams and dykes water impermeable.

Cebogel QSE has the following typical values;

Typical values Cebogel QSE			
Parameter	Test method	Requirement	Typical value
Montmorillonite content	XRD	-	80%
Moisture content	DIN 18121-1	-	16%
Specific density	-	-	2100 kg / m <sup>3</sup> +/- 10%
Bulk density	-	-	1100 kg / m <sup>3</sup> +/- 10%
Water absorption capacity after 24 hours (Enslin)	ASTM E946-92	≥ 600% (BRL-265/01)	800%
Permeability (k-factor)	CUR, via Tri-axial cell	-	1 x 10 <sup>-12</sup> (m/s)
Sinking speed in water	-	-	17 m/min
Density saturated with water	-	-	1,55 t/m <sup>3</sup>
Swelling capacity	-	-	220%



## Cebo Holland

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## Recommended use

Careful and even dosing are required for an optimal result. Bridge formation can occur in the event of dosing too rapidly.

Cebogel QSE has the following chemical and physical properties;

Chemical and physical properties Cebogel QSE	
Composition	High quality activated sodium bentonite
Colour	Grey/yellow
Form	Cylindrical rods
Dimensions	Diameter 6,5 mm Length 5 – 20 mm

## Packaging

Cebogel QSE is available in the following packaging;

- 1050 kg packed in 25 kg bags on a pallet with shrink film
- 1000 kg big bag

Revision date : 02.02.2016  
Document number : 102703GB

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.



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