



## Swellgel QSE/QSE Plus (Sealing material)

SWELLGEL QSE. Sealing material, prepared from high quality raw material of smectite type. It is characterized by a high degree of water absorption and an appropriate delay in the moment of onset of swelling. It guarantees the effectiveness and durability of the seal.

### Application

We recommend usage of **SWELLGEL QSE** primarily when drilling deep wells for water horizon sealing. This is very important, because in this way we protect the aquifer from unwanted inflow of groundwater. Our material can also be successfully used for other applications where there is a need for a durable and effective seal.

Required amount of material needed for proper sealing: 1 kg/1 dm<sup>3</sup> of space.

### Benefits

- High water adsorption capacity ensures proper sealing of the annular space
- Highest quality raw material allows for an effective and durable seal
- Fast rate of descent min. 20 m/min. in aqueous medium
- Beginning of swelling time ~ 15 min avoids the formation of so-called bridges in the annular space
- Ease of application
- High tightness (low filtration rate)

### Properties

	Swellgel QSE	Swellgel QSE Plus
Moisture content	Max. 18%	Max. 20%
Bulk weight	0.9 - 1,1 kg/dm <sup>3</sup>	0.9 - 1,1 kg/dm <sup>3</sup>
Specific gravity	1.9 - 2.1 kg/dm <sup>3</sup>	1.9 - 2.1 kg/dm <sup>3</sup>
Form	Roller	Roller

Dimensions (diameter)	6 mm / 8 mm	6 mm / 8 mm
Dimensions (length)	5 mm - 20 mm	5 mm - 20 mm
Swelling capacity	130 - 160 %	170 - 200 %
Swelling pressure	min. 1.5 kN/m <sup>2</sup>	min. 1.5 kN/m <sup>2</sup>
Speed of descent in water	20 m/min.	20 m/min.
Permeability	10 <sup>-12</sup> m/s	10 <sup>-12</sup> m/s
Onset of swelling time	~ 15 min.	~ 15 min.

## Packaging

The product is available in 25kg plastic bags, or 1000kg big bags. Store in a dry place in a tightly closed container.