

## Technical Data Sheet

# VodaSeal™ - SCB

### General Description:

VodaSeal™ SCB or Soil, Cement Bentonite is a high swelling natural bentonite which contains no polymer additive. It forms a semi solid gel like mass when it comes in contact with water. It adds hydraulic barrier to the admixture of special soil and final structure becomes more stable.

### Application Areas:

- Dam Lining
- Trench Cut Off Wall
- Pond Lining

Vodaseal SCB is available in both powder and graded lumps form complimenting the application area and project requirements.

### When used as a sized granule:

### Technical Specification:

Free Swelling	ASTM D 5890	24 – 30 ml
Methylene Blue Adsorption		390 mg/g
Plate Water Absorption		450 min
pH		8 - 9.5
Moisture	ACC 1009	11-13%
Falling Head Permeability (K=)		4.9E-10 m/sec

Bulk Density	1±5% ton/m <sup>3</sup>
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### Particle Size Analysis:

Residue at #10	36% max
Residue at #30	55% max
Residue at #50	5% max
Pan	4% max

## When used as a powder:

### Technical Specification:

Free Swelling	ASTM D 5890	24 – 30 ml
Methylene Blue Adsorption		390 - 400 mg/g
Plate Water Absorption		500 min
pH		8 - 9.5
Moisture	ACC 1009	11-13%
Permeability(co-efficient) Result after 7 days		10 <sup>-8</sup> m/sec

### Particle Size Analysis for Powder

Passing through 100 mesh	99% min
Bulk Density	0.85 +/- 10% ton/m <sup>3</sup>

### Chemical Composition (Analysis):

Silica as (SiO <sub>2</sub> )	48- 50%
Alumina as (Al <sub>2</sub> O <sub>3</sub> )	18 - 20%
Iron as (Fe <sub>2</sub> O <sub>3</sub> )	9 - 12%
Calcium as (CaO)	2- 3%
Magnesium as (MgO)	2.5 - 3%
Sodium as (Na <sub>2</sub> O)	1.5 – 2.3%
Potassium as (K <sub>2</sub> O)	0.08 - 0.15%
Total Sulphur	0.3% max

#### Note:

*The chemical composition of the Bentonite to be determined on indicative basis since the chemistry varies from one mining site to other. The Technical specifications as specified above will however have no variation. The results will vary under saline conditions.*



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#### Bentonite Processing plant :

Survey no: 583/1 plot 2-6, Bhuj Bacaho Road

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Only in-house production & process:

Bentonite | Drilling Polymer & Cellulose | Drilling Foam | Bentonite Pellets | Super Absorbent Clay