

### 1. GENERAL INFORMATION

SES-Bentonite API is a high-quality drilling bentonite for use in drilling and microtunneling jobs. Economical product works effectively at low concentrations. Rheological parameters ensure the safe conduct of work under all geological conditions.

### 2. APPLICATIONS / FUNCTIONS

- Oilfield, Microtunneling, Tunneling and Civil Engineering
- The basic component of drilling system with a low solid content
- Universal fluid for drilling large-diameter vertical
- Bentonite suspension provides a stable borehole
- Provides effective lubrication in the microtunneling technology

### 3. ADVANTAGES

- Low coefficient of friction in the hole
- Creating a stable gel structures
- Easy to clean in shale shakers and hydrocyclones

### 4. TYPICAL PROPERTIES

Appearance	beige powder
Specific gravity	2,6 t / m <sup>3</sup>
Bulk density	0,9 t / m <sup>3</sup>

### 5. TREATMENT

SES-Bentonite API should be added through the hopper with Venturi jet and circulate until the material is dispersed. Do not overdose.

#### **RECOMMENDED TREATMENT [kg/m<sup>3</sup>]**

Depending on the geological conditions from 40 to 70 [kg / m<sup>3</sup>]

### 6. PACKAGING & STORAGE

SES-Bentonite API is packaged in 25 kg multiwall paper sacks a 40 items on pallet or in 650 kg big bags. Store in dry location away from sources of heat or ignition, and minimize dust.

### 7. HANDLING

Observe the precautions as described in Safety Data Sheet

### 8. LABORATORY TEST

Parameters	Values according to API	Unit	Measured values	Specification
Concentration	22,5/ 350	g/ml	22,5/350	Spec. API 13 A
Viscometer dial reading at 600 rpm	30	min.	44	Spec. API 13 A
Yield	3	max.	2,4	Spec. API 13 A
Point/Plastic Viscosity Ratio				
Filtrate Volume	15	cm3	14	Spec. API 13 A
Residue greater than 75 µm	4	%	1,8	Spec. API 13 A
Moisture	10	%	8,2	Spec. API 13 A