



Bentonite products information

Prime Gel Plus

DESCRIPTION

Natural sodium bentonite with a high montmorillonite content. It is characterized by high efficiency and fresh water dispersion easiness with lack of sanding. The drilling mud made on the bentonite Prime Gel Plus base has a great ability to remove spoil and makes low permeability thin clay deposit. The rheological parameters got on the base of Prime Gel Plus bentonite are solid over time. The scrubber is used commonly for horizontal drilling practiced in HDD and Microtunnelling technology, drilling for vertical heat collectors and where necessity of quick preparation of low solid phase scrubber occurs. Bentonite Prime Gel Plus can also be used as a single scrubber component or as a link to other products, eg. various types of polymers.

PHYSICAL PROPERTIES:

| | |
|-------------|--------------------------|
| Density | 2500 kg / m ³ |
| Bulk weight | 780 kg / m ³ |
| Humidity | 11,0% |

Bentonite Prime Gel Plus is supplied as a beige powder. In order to accelerate bentonite dispersion in water it is recommended to use 2-3 kg of Ash Soda and a hydraulic mixer funnel or high-speed mixers. Suspension time of Prime Gel Plus bentonite in water is 15-20 minutes.

RHEOLOGICAL PARAMETERS (at 20 °C)

| Concentration in drilling fluid [kg/m ³] | Density of the scrubber [kg/m ³] | Funnel constructural viscosity [s] | Plastic viscosity [cP] | Limit of flow [lb/100ft ²] |
|--|--|------------------------------------|------------------------|--|
| 30 | 1015 | 40, | 7 | 16 |
| 40 | 1020 | 54 | 11 | 33 |
| 50 | 1025 | 103 | 16 | 50 |

RECOMMENDED CONCENTRATIONS

| Soil type | Concentration [kg / m ³] |
|--------------------------|--------------------------------------|
| Clays | 25-30 |
| Small and medium sand | 30-35 |
| Coarse sand, gravels | 35-45 |
| Stones, scrubber residue | 45-50 |

PACKAGE:

Bentonite Prime Gel X is packed in Big Bag type bags, store in dry place.