

SMOOTH GROUT 30

SMOOTH GROUT 30 bentonite-grouting composition is easy to use and contains high-swelling, sodium montmorillonite clay. It is designed for use in water wells and monitoring wells, for sealing the annular space around the well casing, and for plugging drilled holes and abandoned wells. SMOOTH GROUT 30 bentonite-grouting composition contains no organic additives or polymers.*

A one-sack formulation of SMOOTH GROUT 30 bentonite-grouting composition mixes with freshwater to yield a 30% pumpable grouting slurry with an extended working time. When it sets up, the SMOOTH GROUT 30 bentonite-grouting composition develops a satisfactory seal with adequate structural strength and low-hydraulic conductivity. When properly placed, the SMOOTH GROUT 30 bentonite-grouting composition remains flexible, rehydratable, and unstratified through heating and cooling cycles.

Typical Physical Properties

Physical appearance.....	Beige-to-tan powder
Moisture content	8%
Specific gravity	2.5
pH (8% slurry)	7.0
Slurry density	10 lb/gal (1.2 kg/L) for 30% solids
Dry bulk density.....	64 lb/ft ³ (1,025.2 kg/m ³)
Screen analysis.....	75% min. passing through 200-mesh

Applications

- Sealing and grouting casing
- Sanitary sealing in water-well construction
- Sealing in monitoring wells
- Plugging and abandoning exploration boreholes



Advantages

- Inorganic, non-fermenting, and non-toxic
- Develops lower-solids slurries up to 30% activity
- Easily mixed with most conventional rig equipment
- Permanent, flexible seal prevents entry of contaminants from the surface
- Extended working time controlled by the grout solids content
- Firm texture providing structural stability after grout set

Addition Method

SMOOTH GROUT 30 bentonite-grouting composition should be mixed with freshwater to obtain maximum results. A 50-lb (22.7-kg) sack of SMOOTH GROUT 30 bentonite-grouting composition with 14 gal (53 L) of water makes a 30%-active-solids slurry. The viscosity and consistency of a mixed grout slurry can be modified by adjusting the amount of water used to obtain varying solids content.

1. Using a mixing device, blend one 50-lb (22.7-kg) sack of SMOOTH GROUT 30 bentonite-grouting composition into 14 gal (53 L) of freshwater.
2. Blend, do not over-mix. The resulting slurry should look like cake batter. Pump through tremie line without delay.

SMOOTH GROUT 30 Bentonite-Grouting Composition at Various Solids Content				
SMOOTH GROUT 30 (lb/kg)	Water gal (L)	Solids Content (%)	Usable Slurry gal (L)	Estimated Working Time (min)
50 (22.7)	14 (53)	30.0	17 (64.4)	30–60
50 (22.7)	15 (56.8)	28.6	18 (68.1)	15–30
50 (22.7)	16 (61)	27.3	19 (72)	5–15

Limitations

When used as recommended, there are no limitations imposed on this product.

Toxicity and Handling

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Material Safety Data Sheet (MSDS).

Packaging and Storage

SMOOTH GROUT 30 bentonite-grouting composition is packaged in 50-lb (22.7-kg), multi-wall paper sacks and is available in bulk. Store in a dry location (slip hazard when wet) and minimize dust (use dustless systems for handling, storage, and cleanup).

Material can be palletized at either 56/pallet or 70/pallet.

Store in a well-ventilated area away from sources of heat or ignition.

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