QUIK-GROUT®

One-Sack Borehole Grouting and Plugging Material

Description

QUIK-GROUT® single-sack, easy-to-use, sodium-based bentonite grout designed for grouting water wells, monitoring wells, and for plugging holes. QUIK-GROUT bentonite does not contain any polymers.

Applications/Functions

- Can seal or grout plastic and steel casings
- Can seal downhole instrumentation in test and observation holes
- Can plug abandoned boreholes and earthen cavities

Note: Not recommended for use as a cement additive

Advantages

- Easy one-sack, dust-free mixing
- Can develop a 20% active solids slurry weighing 9.4 lb/gal (1.13 g/cm^3) with hydrostatic gradient of 0.489 psi/ft (11.1 kPa/meter)
- Mix and handle with conventional rig equipment
- Can create a low permeability seal
- Can develop a permanent, flexible seal to prevent commingling between aquifers
- Helps prevent entry of contaminants from the surface
- Rehydratable
- No heat of hydration
- NSF/ANSI Standard 60 certified

Typical Properties

Appearance	Beige to tan granular
Specific gravity	2.6
pH (8% slurry)	8.2
Electrical Resistivity, ohm-meter	0.98
Yield Volume gal/sack (liters/sack)	26.3 (99.5)
Permeability	2.5 x 10^{-8} cm/sec (in fresh water)

Recommended Treatment

QUIK-GROUT bentonite should be mixed with fresh water to obtain maximum results. The recommended mixing rate is a 50-lb (22.7 kg) sack of
QUIK-GROUT bentonite with 24 gallons (91 liters) of fresh water to create a 20% active solids by weight grout with a density of 9.4 lb/gal or 1.13 g/cm^3.

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Recommended Mixing Procedure

- Using a mixing device, blend one sack of QUIK-GROUT material into 24 gallons (91 liters) of fresh water. Rate of addition should be about 20 to 30 seconds per 50-lb (22.7 kg) bag.
- Blend, do not over mix and do not use a centrifugal pump. The resulting slurry should have an oatmeal consistency containing unyielded or partially yielded bentonite. Pump through tremie into hole without delay.

Note:

- The grouting method selected will depend upon, and you should carefully consider, all prevailing geological and hydrological factors and any existing regulatory requirements. The grouting process may not be complete until the grout is static at the desired level.
- The subsurface environment that the respective bentonite sealing material or grout is to be placed into should always be taken into consideration when selecting the appropriate material to compose the well seal. If the formation water chemistry has a total hardness of greater than or equal to 500 parts per million and/or a chloride content of greater than or equal to 1500 parts per million the use of a bentonite material may not be appropriate for this environment. In the event that questions regarding subsurface environments arise it is always best to consult your local Baroid IDP representative to determine if the Baroid product of choice is appropriate for the given conditions.

Packaging

QUIK-GROUT bentonite is packaged in 50-lb (22.7 kg) multiwall paper bags, containing 0.7 ft^3 (0.02 m^3).

Availability

QUIK-GROUT bentonite can be purchased through any Baroid Industrial Drilling Products Retailer. To locate the Baroid IDP retailer nearest you contact the Customer Service Department in Houston or your area IDP Sales Representative.

Baroid Industrial Drilling Products
Product Service Line, Halliburton
3000 N. Sam Houston Pkwy E.
Houston, TX 77032

Customer Service	(800) 735-6075 Toll Free	(281) 871-4612
Technical Service	(877) 379-7412 Toll Free	(281) 871-4613