



BARO-GEL™

Borehole Stabilizer

Description BARO-GEL™ borehole stabilizer is a single sack fluid system specially formulated for use in horizontal directional drilling (HDD) and construction applications. BARO-GEL borehole stabilizer is a proprietary blended product using high-quality sodium bentonite. When BARO-GEL borehole stabilizer is mixed with fresh water, it develops an easy-to-pump slurry with desirable fluid properties for HDD and construction applications.

Applications/Function *The use of BARO-GEL borehole stabilizer assists or promotes the following:*

- Effective gel strength with minimum viscosity for cuttings suspension and transport
- Enhanced borehole stability in poorly consolidated/cemented sands and gravel formations
- Improved filtration properties through development of a thin, low permeable filter cake
- Reduction in force required to advance pipe in microtunneling operations

- Advantages**
- Easy to mix and compatible with other Baroid products
 - Reduced viscosity development minimizes pump pressures
 - Helps provide increased lubricity for installation of product lines
 - Can be used in a variety of vertical drilling applications where unconsolidated formations are present or when additional gel strengths are required

Typical Properties

▪ Appearance	Tan to gray powder
▪ pH (4% slurry or 15 lb/bbl)	10.2
▪ Bulk density, lb/ft ³	68 to 72 (compacted)

Recommended Treatment Add slowly and uniformly through a high-shear, jet-type mixer over one or more cycles of the volume of slurry. Continue to circulate and agitate the slurry until all unyielded bentonite is dispersed.

Recommended Amounts of BARO-GEL™ Borehole Stabilizer Added to Freshwater-Based Fluids		
Boring or Construction Application	lb/100 gal	kg/m ³
Normal drilling conditions	25 – 35	30 – 42
Poorly consolidated sand/gravel	35 – 60	42 – 72
Lubrication fluid for tunneling	50 – 60	60 – 72

Packaging BARO-GEL™ borehole stabilizer is packaged in a 25-kg multiwall paper bag.

Availability BARO-GEL borehole stabilizer can only be purchased through Australasian Baroid Industrial Drilling Products Retailers. 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 USA

Customer Service (800) 735-6075 Toll Free (281) 871-4612

Technical Service (877) 379-7412 Toll Free (281) 871-4613
