

# QUIK-FOAM®

## Foaming Agent

## Product Data Sheet

### Product Description

QUIK-FOAM® foaming agent can be used effectively in fresh, or brackish water for air/foam, or air/gel-foam applications. It can be used for foam drilling to improve cutting capacity over air alone or for reduction of hydrostatic head in some water based applications. QUIK-FOAM foaming agent is biodegradable (>99%), non-toxic and non-irritating to the skin.

### Applications / Functions

- Helps enhance the rate of cuttings removal
- Helps increase the lifting of large volumes of water
- Helps improve hole-cleaning capability of the airstream
- Can counteract the sticking tendencies of wet clays, thereby eliminating mud rings and wall packing
- Helps reduce erosion of poorly consolidated formations
- Can provide a technique for drilling in zones with lost circulation
- Helps increase borehole stability
- Helps reduce air-volume requirement
- Helps suppress dust during air drilling operation
- Can provide a technique for drilling in environmentally sensitive areas

### Advantages

- High quality, high expansion foam with a consistency similar to shaving foam
- High stability with long half-life (retention time)
- Versatile and compatible with various types of make-up water
- Readily undergoes primary and ultimate (>99%) biodegradation
- Non-toxic, non-irritating to the skin
- Helps reduce the potential for bit balling

### Typical Properties

- |                       |                                  |
|-----------------------|----------------------------------|
| • Appearance          | Light yellow, transparent liquid |
| • Specific gravity    | 1.03                             |
| • pH, (0.5% solution) | 7.1                              |
| • Flash point, PMCC   | 82°F                             |
| • Flash point, PMCC   | 28°C                             |
| • Pour point          | 0°F                              |
| • Pour point          | -18°C                            |

### Recommended Treatment

See treatment table

[www.halliburton.com/baroid](http://www.halliburton.com/baroid)

Because the conditions of use of this product are beyond the seller's control, the product is sold without warranty either express or implied and upon condition that purchaser make its own test to determine the suitability for purchaser's application. Purchaser assumes all risk of use and handling of this product. This product will be replaced if defective in manufacture or packaging or if damaged. Except for such replacement, seller is not liable for any damages caused by this product or its use. The statements and recommendations made herein are believed to be accurate. No guarantee of their accuracy is made, however.

QUIK-FOAM is a registered trademark of Halliburton • © 2010 Halliburton All Rights Reserved

## Packaging

QUIK-FOAM foaming agent is packaged in 5-gal (18.9-l) pails containing 42-lb (19-kg) or in drums containing 55-gal (208-l) containing 460-lb (209-kg)

Product Make-ups for Air Drilling Injection Slurries					
Product	Water, bbl	AQUAGEL viscosifier lb/bbl	PAC-R filtration control agent lb/bbl	QUIK-FOAM foaming agent % by vol	Mixing / Injection Procedure
Foam Drilling System	1	---	---	0.02 – 0.03	Add AQUAGEL® viscosifier to injection water. Inject into the air stream at a rate necessary to maintain hole stability and penetration rate. Increase amount of AQUAGEL viscosifier as required to compensate for downhole water dilution
Firm-Foam Drilling System	1	---	0.21 – 0.42	0.1 – 2.0	Mix PAC-R™ filtration control agent with water before adding QUIK-FOAM foaming agent. 0.4-0.8 pints of EZ-MUD® shale stabilizer may be substituted for PAC-R filtration control agent. Inject into the air stream at a rate necessary to maintain hole stability and penetration rate.
Gel-Foam Drilling System	1	5 – 6.3		0.3 – 1.0	Mix AQUAGEL viscosifier and PAC-R filtration control agent with water before adding QUIK-FOAM® foaming agent. Inject into the air stream at a rate necessary to maintain hole stability and penetration rate. Resulting viscosity is 32-40 sec/qt as measured by Mash Funnel

[www.halliburton.com/baroid](http://www.halliburton.com/baroid)

Because the conditions of use of this product are beyond the seller's control, the product is sold without warranty either express or implied and upon condition that purchaser make its own test to determine the suitability for purchaser's application. Purchaser assumes all risk of use and handling of this product. This product will be replaced if defective in manufacture or packaging or if damaged. Except for such replacement, seller is not liable for any damages caused by this product or its use. The statements and recommendations made herein are believed to be accurate. No guarantee of their accuracy is made, however.

QUIK-FOAM is a registered trademark of Halliburton • © 2010 Halliburton All Rights Reserved

3/26/2010