



AQF-2™ XG

Next Generation Foaming Agent

Description AQF-2™ XG Next Generation Foaming Agent is an anionic surfactant which can be added to fresh water for air/foam, air/gel-foam, or mist drilling applications.

Applications/Functions

The use of AQF-2 XG Next Generation Foaming Agent promotes or assists with the following:

- Enhance the efficiency of cuttings removal
- Increase the ability to lift large volumes of water
- Improve hole-cleaning capability of the airstream
- Reduce the sticking tendencies of wet clays, minimizing the risk of mud rings and wall packing
- Reduce erosion of poorly consolidated formations
- Drilling in zones with lost circulation
- Increase borehole stability
- Reduce air-volume requirement

Advantages

- Elevated flash point for easier shipping
- High quality, high expansion foam with a consistency similar to shaving foam
- High stability with excellent retention time
- Proven product for multi-discipline application
- NSF/ANSI/CAN Standard 60 certified

Typical Properties

Appearance	Light yellow, transparent liquid
Specific gravity	1.038
pH (10% solution)	6.5 – 8.5
Flash point	142°F (61°C)

Recommended Treatment

Approximate Amounts of AQF-2 XG Next Generation Foaming Agent Added to Injection Water

% by Volume	Gallons /100 gal	Quarts /bbl	Liters/m ³
0.5 - 2	0.5 - 2 gallons	1.5 - 7 pints	5 - 20

**Recommended
Treatment
(Continued)**

Approximate Product Make-ups for Air Drilling Injection Slurries				
Injection Slurry	Water (gallons)	QUIK-TROL® GOLD polymer (pounds)	EZ-MUD® liquid polymer (pints)	AQF-2™ XG foaming agent (% by volume)
Air-Foam Drilling System	100	0 - 1	0 - 2	0.5 - 2
<p>Foam mixing/injection procedure:</p> <p>Add AQF-2 XG Next Generation Foaming Agent to injection water. Inject into the air stream at a rate necessary to maintain hole stability and penetration rate. Increase amount of AQF-2 XG Next Generation Foaming Agent as required to compensate for downhole water dilution.</p> <p>To build a stiff-foam drilling system:</p> <p>Mix QUIK-TROL GOLD polymer (0.5-1 pound per 100 gallons) or EZ-MUD liquid polymer (1-2 pints per 100 gallons) with water before adding AQF-2 XG Next Generation Foaming Agent. Inject into the air stream at a rate necessary to maintain hole stability and penetration rate.</p>				
Injection Slurry	Water (gallons)	QUIK-GEL® viscosifier (pounds)	QUIK-TROL® GOLD polymer (pounds)	AQF-2 XG foaming agent (% by volume)
Gel-Foam Drilling System	100	12 – 15	1	0.5 - 1
<p>Gel-Foam Mixing/Injection Procedure:</p> <p>Mix viscosifier and polymer with water before adding AQF-2 XG Next Generation Foaming Agent. Inject into the air stream at a rate necessary to maintain hole stability and penetration rate.</p>				

Notes:

- **Close product container immediately after use to avoid gelling of remaining AQF-2 XG Next Generation Foaming Agent.**
- **Foam and effluent must never be discharged into a stream or waterway. It is the end-user's responsibility to contain foam/effluent, cuttings, and production water. Utilize hay bales, temporary containment ponds or systems to isolate the foam.**

Packaging

AQF-2™ XG Next Generation Foaming Agent is packaged in 5-gal (19-liter) plastic containers or in 55-gal (208 liter) drums.

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