

TECHNICAL INFORMATION SHEET

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SUBJECT: AIR FOAM

Specially formulated, concentrated foaming agent for air-foam drilling

TYPICAL PROPERTIES

| | |
|---------------------------------------|---------------------|
| COLOR: | Clear yellow liquid |
| VISCOSITY: cps @ 25°C | 150 |
| CLOUD POINT: °C (°F) | -14 (7) |
| DENSITY: g/ml (lb/U.S. gal) | 1.08 (9.0) |
| pH (as cocentrate): | 7.4 |
| FLASH POINT: SETA °C (°F) | 66 (150) |

TYPICAL CHARACTERISTICS:

| <u>Characteristic</u> | <u>Typical Test Results</u> |
|---------------------------|-----------------------------|
| Foam Height (cc.)* | 680 |
| Foam Half-life (seconds)* | 218 |

*All tests conducted using 10 ml. of foaming agent in 100 ml. of DI water. Mixing time 60 seconds in high shear mixer.

Air Foam is a concentrated, biodegradeable, anionic surfactant (detergent) that has been specially designed for use in pneumatic drilling applications. Air Foam contains no phosphorous or phosphate compounds. It is easily mixed with fresh water or moderate salt brines to produce high volume, long lasting foams that are efficient in removing cuttings from bore holes. Air Foam also aids in reducing balling at the drill bit and in reducing or eliminating dust generation during drilling operations. Air Foam has a low degree of bio-toxicity and is safe for use in potable water wells (see MSDS for details). Care should be taken to prevent any surfactant from entering bodies of water as All surfactants may interfere with oxygen uptake mechanisms in aquatic organisms.

USES:

Mineral and water well drilling, horizontal boring and tunneling.