FLOW-BAK surface tension reducer

Reduce capillary forces that trap aqueous fluids in low-permeability formations

Where it is used

This unique microemulsion technology significantly improves the flowback capability of fluids imbibing formations and minimizes the risk of phase trapping during drilling, completion, or workover operations. Reservoir productivity is hereby preserved.
FLOW-BAK* surface tension reducer is ideal for tight gas-producing formations, where water blockage is a common damage condition. However, excellent results can be obtained in reservoirs with higher permeability, especially when high-density brines are used.

How it improves wells

- Significantly reduces surface tension of the fluids entering the reservoir
- Increases relative permeability to hydrocarbon
- Aids in recovery of invading brine or filtrate
- Reduces the risk of phase trapping and water blocking
- Has very low adsorption on most formation types

How it works

FLOW-BAK reducer is typically added to completion or workover fluid at 0.3– 0.7% vol/vol. Gentle agitation of the product in brine is recommended to minimize foaming potential. Treatment with DEFOAM EXTREME* specialized brine-based system defoamer may be beneficial. FLOW-BAK reducer can be used in remedial stimulation, completions, and workovers and may also be added to reservoir drill-in fluids or fluid loss control pills to enhance the recovery of filtrate. Over periods of prolonged circulation, maintain the fluid by adding 0.1%–0.2% FLOW-BAK reducer with defoamer as needed.

What else I should know

This is a flammable liquid. When used in conjunction with DEFOAM EXTREME defoamer, maintain pH below 9.5.
FLOW-BAK reducer must be tested for compatibility in heavy brine.

Toxicity and handling

Bioassay information is available on request. Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the SDS.

Packaging and storage

FLOW-BAK reducer is packaged in 55-galUS poly drums. Keep drums tightly sealed to avoid contamination. Keep away from heat, sparks, and flames.

Typical Physical Properties	
Physical appearance	Clear to brown liquid
Odor	Citrus
Solubility in water	Soluble
Specific gravity	0.94
Flash point	142 degF [61 degC], PMCC