Tech Data Sheet
ACL-81 (AC-81) SERIES

# SLICKWILLIE OILFOAM SOAP STICK

CARBOARD TUBE (WHITE-BLUE)



## Excellent in Both Water and Condensate as this is a Combination of Both Superfoam and Oilfoam Sticks

***SLICK WILLIE™ OILFOAM SOAP STICKS are special sticks that contain 100% active surfactants, friction reducer and foam stabilizer in water-soluble tubes. Natural gas bubbling through the water column and 100% active ingredients produces foam which can help remove water from watered-up gas wells. They also contain a surfactant that breaks through the condensate to help lift the water/condensate out of the well.***

## PRODUCT USES & ADVANTAGES:

***SLICK WILLIE™ OILFOAM SOAP STICKS*** **are primarily** ***used to remove water and condensate from gas wells and increase gas production.*** **The foaming action decreases the hydrostatic back-pressure which increases gas production that further enhances the foaming action until the well unloads.**

***SLICK WILLIE™ OILFOAM SOAP STICKS*** **can be used** ***to remove condensate and water from gas-condensate wells and flowing oil wells.*** **Part of the stick contains water-foam with the balance being useful as condensate and oil remover.**

***SLICK WILLIE™ OILFOAM SOAP STICKS*** **contain** ***100% active chemicals in a water soluble tube that can produce up to four (4) times more foam than some other sticks on the market.*** **The entire stick (tube, caps, and contents) are water soluble. The sticks are shipped ready-to-use and will not dissolve while in cool dry storage.**

***SLICK WILLIE™ OILFOAM SOAP STICKS*** **can develop stable foam in high temperature deep gas wells.** ***Lab tests indicate that stable foam can be developed at 212ºF and above. For extremely high temperature wells the formulation can be altered.***

***SLICK WILLIE™ OILFOAM SOAP STICKS*** **are an economical way to remove water and oil from gas wells without using expensive well service operations such as swabbing, jetting with coiled tubing, or installing artificial lift and siphon strings.**

***SLICK WILLIE™ OILFOAM SOAP STICKS*** **can be used to increase the swabbing efficiency and life of swab cups.**

## TREATMENT DETERMINATION & PROCEDURE

***The number of SLICK WILLIE™ OILFOAM SOAP STICKS to be used is based on the volume of water above the perforations. Field tests indicate that the best results were achieved by using a larger initial slug treatment of 1/8 to 1/4 percent by weight of SLICK WILLIE™ OILFOAM SOAP STICKS to water above the perforations. A treatment of 1/8 to 1/4 percent by weight would require .44 to .88 lbs. of stick per BBL of water.***

| PART NUMBER | STICK SIZES | STICK RATIO INITIAL SLUG TREATMENT |
|---|---|---|
| ACL-8120 | 1 1/4 X 15 | 4 STICKS PER 1 BBL's OF Total Fluid |
| ACL-8150 | 1 1/4 X 15 | 1 STICKS PER 1 BBL's OF Total Fluid |
| ACL-8080 | 1 5/8 X 18 | 1 STICKS PER 1 BBL's OF Total Fluid |

ALTACHEM LTD.
5507-76th Ave. EDMONTON, AB. T6B 0A7
Cell: (780) 907-2357 (Peter)
PH: 780-414-1445 FAX: 780-414-1446 TF: 1-866-414-1445
www.altachem.ca Email: altachem@shaw.ca www.altachem.net



## NOTE:

*The above amount is recommended for an initial slug treatment.* In many cases, removing the top few hundred feet of fluid may be sufficient to allow the production of natural gas to blow out the remaining fluid in the well. To determine the optimum amount for periodic treatments you may choose to gradually reduce the initial treatment amount until the most economical point is reached. Periodic treatments with *SLICK WILLIE™ OILFOAM SOAP STICKS* may be necessary to prevent production decline due to the gradual water build-up. It is much easier to maintain gas production with regular insertion of *SLICK WILLIE™ OILFOAM SOAP STICK* than it is to kick off a dead well. Gas bubbling through water is necessary to create foam. *If a well is totally dead, GAS STICKS (SELF AGITATING) ™ may be used in conjunction with SLICK WILLIE™ OILFOAM SOAP STICKS to provide agitation energy.*

## THE MOST COMMON PROCEDURE:

*Is to shut-in the well and drop sticks through a lubricator. Wait 5 minutes until sticks contact top of fluid then slowly return well to normal production.* Repeat procedure if or when it becomes necessary. FOR HIGH RATE WELLS (after sticks have contacted the top of fluid) flow well at about 25% of pretreatment rate for about 20 minutes or until foam reaches surface then return to normal rate. *FOR SHALLOW OR LOW RATE WELLS leave well flowing while dropping sticks if possible.*

| Est. hydrostatic back pressure reduction per bbl. of water removed (Based on .43 PSI per foot of depth) | |
|---|---|
| 2 3/8 inch | 100 PSI REDUCTION FOR 1 BBL OF WATER REMOVED |
| 2 7/8 inch | 75 PSI REDUCTION FOR 1 BBL OF WATER REMOVED |
| 3 1/2 inch | 50 PSI REDUCTION FOR 1 BBL OF WATER REMOVED |

## PRODUCT SPECIFICATIONS

*The stick will normally dissolve in 30 to 90 minutes depending on temperature, salt content, and relative water motion SLICK SOAP STICK are 100% soluble in water and insoluble in oil.* The melting point of the sticks is 140°F. The stick will dissolve in water in wells with BHT below 140° (just at a slower rate). Lab tests indicate the dissolving rate in 50,000 PPM moving brine water to be 25 minutes @ 140°, and 15 minutes @ 180°. The dissolving time will decrease if the sticks are broken before dropping or if they break upon impact with the top of the fluid. T*he specific gravity is 1.16. The falling rate through fresh water is approximately 100 feet per minute. The sticks can free fall (through air) 3,000 feet in about 15 seconds. Gas moving up tubing will often change falling characteristics.*

## FOR INDUSTRIAL USE ONLY:

CAUTION: As with all industrial chemicals, contact with eyes or skin should be avoided. Wash thoroughly with water. Pellets should be stored in a cool dry place. Always remove pellets from the container with the scoop provided while wearing rubber gloves to avoid skin contact. Goggles are advised.

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