



ALTACHEM LTD.

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PRODUCT DATA SHEET

SLICK WILLIE OILFOAM STICKS (High Foam-Hydrocarbon-Water-Oil Thinner-Condi to 80%)



Water Soluble Tube	Color-Tan/Blue	TDG-Not Regulated	Air Or Ocean Freight
SLICK WILLIE OILFOAM STICK SIZES		PER BBL (INITIAL SLUG TREATMENT	
¾ X 15	.75 X 15	19.05 x 381 mm	2-4 Sticks Per 1 BBL of Fluid
1 ¼ x 15	1.25 x 15	31.75 x 381 mm	1-3 Sticks Per 1 BBL of Fluid
1 ¼ x 18	1.25 x 18	31.75 x 457.2 mm	½ -1Sticks Per BBL of Fluid

Estimated hydrostatic back pressure reduction for ea. BBL of water removed (for various tubing sizes)			
2 3/8 “	2.375	60.325 mm	100 PSI REDUCTION FOR 1 BBL OF WATER REMOVED
2 7/8”	2.875	73.025 mm	75 PSI REDUCTION FOR 1 BBL OF WATER REMOVED
3 1/2 “	3.5	88.9 mm	50 PSI REDUCTION FOR 1 BBL OF WATER REMOVED

Form	Solid
Color	Tan/Blue (WST)
pH	WH:7-8 BL: 6-7
Specific Gravity	1.16

Melting Point	140°F
Solubility in Water	100%
Solubility in Brine	100%
Solubility in Crude	Insoluble

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 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 STICKS** 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™** may be used in conjunction with **SLICK WILLIE OILFOAM STICKS** to provide agitation energy.

SLICK WILLIE OILFOAM 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.

PRODUCT USES & ADVANTAGES

SLICK WILLIE OILFOAM 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 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.



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SLICK WILLIE OILFOAM STICKS can be used to remove fluid from gas-condensate wells and flowing oil wells. They can be used in conjunction with **GAS STICKS™** to kick off totally dead and watered up wells. (PLEASE REFER TO HOW TO REVIVE A DEAD WELL (on website under treatments) which has been a very successful.

SLICK WILLIE OILFOAM 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 STICKS can develop stable foam in high temperature deep gas wells. Lab tests indicate that stable foam can be developed at 212°F and above. For extremely high temperature wells the formulation can be altered. You can also coat the tube with high temperature grease (a very simple method) which will delay the activation of the stick in wells with temperatures up to and exceeding 400° Fahrenheit.

SLICK WILLIE OILFOAM 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.

TREATMENT DETERMINATION & PROCEDURE FOR WATER REMOVAL

The number of **SLICK WILLIE OILFOAM 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 0.0125 % to 0.025 % by weight of **SLICK WILLIE OILFOAM STICKS** to water above the perforations. A treatment of 0.0125 % to 0.025 % by weight would require approximately 0.44 to 0.88 lbs of stick per BBL of water.

THE MOST COMMON PROCEDURE

Is to shut-in the well and drop sticks through a lubricator. Wait 30 minutes or until sticks dissolve then slowly return well to normal production. Repeat procedure if or when it becomes necessary. FOR HIGH RATE WELLS (after sticks have dissolved) flow well at about 25% of pretreatment rate for about 30 minutes or until foam reaches surface then return to normal production. FOR SHALLOW OR LOW RATE WELLS leave well flowing while dropping sticks. The time in minutes for the sticks to fall to the perforations in a shut-in well is equal to the depth of perforations divided by 110. (Time, min = Depth, ft/ 110)

PRODUCT SPECIFICATIONS

The sticks will normally dissolve in 30 to 90 minutes depending on temperature, salt content, and relative water motion. The melting point of the sticks is 140°F. The stick will dissolve in fluid in wells with BHT below 140° (just at a slower rate). Lab tests indicate (tube & contents) will dissolve in 90 minutes @ 100°, 62 minutes @ 120°, 25 minutes @ 140°, and 15 minutes @ 180°. The 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.



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SAFETY & HANDLING

Please review SDS prior to using this product. As with all industrial chemicals, contact with eyes or skin should be avoided. Wash thoroughly with water if contact with skin is made. Sticks should be stored in a cool dry place. Always remove stick from plastic bag or cardboard tube before using. Bag or tube can be used as a glove to avoid contact with hands. Acid Cap Sticks may have a limited shelf life of 120 days and should be ordered for immediate use only

DISCLAIMER OF LIABILITY

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