



ALTACHEM LTD.

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PRODUCT DATA SHEET

SUPER FOAM STICKS ((High Foamer-Water-Oil-Condi to 65%-Dead Wells)(4 X Foam)

Water Soluble Tube				Color-Tan/White	TDG-Not Regulator	Air Or Ocean Freight
SUPERFOAM 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 Water	
1 ¼ x 7	1.25 x 7	31.75 x 177.8 mm			2-4 Sticks Per 1 BBL of Water	
1 ¼ x 9	1.25 x 15	31.75 x 228.6 mm			1-3 Sticks Per 1 BBL of Water	
1 ¼ x 15	1.25 x 15	31.75 x 381 mm			1-3 Sticks Per 1 BBL of Water	
1 ¼ x 18	1.25 x 18	31.75 x 457.2 mm			½ -1 Sticks Per BBL of Water	

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 (WST)
pH	7-8
Specific Gravity	1.16

Melting Point	125°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 **SUPER FOAM 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 **SUPER FOAM 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 **SUPER FOAM STICKS** to provide agitation energy.

SUPER FOAM STICKS are special foam 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

SUPER FOAM STICKS are primarily used to remove water from gas wells and increase gas production. This foaming action decreases the hydrostatic back-pressure which increases gas production that further enhances the foaming action until the well unloads



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SUPER FOAM 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 treatment's) which has been a very successful.

SUPER FOAM STICKS can be used to remove fluid from gas-condensate wells and flowing oil wells. For gas-condensate wells with more than 65% condensate, it is recommended to use **OIL FOAM STICKS™** in conjunction with **SUPER FOAM STICKS**

SUPER FOAM STICKS contains 100% active foamer in a water soluble tube that can produce up to four (4) times more foam than some other sticks on the market. These sticks can develop stable foam in high temperature deep gas wells. Lab tests indicate that stable foam can be developed at 212 degrees Fahrenheit 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.

SUPER FOAM STICKS are used in water injection wells in combination with **ACID STICKS®** to help reduce injection pressures. Surfactants contained in **SUPER FOAM STICKS** can help remove oil coatings on scale. This helps the **ACID STICKS®** react with the exposed scale.

SUPER FOAM STICKS are an economical way to remove water from gas wells without using expensive well service operations such as swabbing, jetting with coiled tubing, or installing artificial lift and siphon strings. **SUPER FOAM STICKS** can remove 1-3 barrels of water and be used in conjunction with other stick to maximize a wells potential. This is an excellent stick for most wells and can be cut if so desired.

TREATMENT DETERMINATION & PROCEDURE FOR WATER REMOVAL

The number of **SUPER FOAM 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 **SUPER FOAM 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, first remove the plastic wrapper and then drop sticks through a lubricator and return the well to injection. This procedure is best for open-hole, no rat-hole, low rate wells, or wells deeper than 3,300 feet. FOR SHALLOW PERFORATED WELLS WITH RAT-HOLE drop sticks and leave well shut-in about 15 minutes or until sticks fall to the perforations (whichever occurs first) then return well to injection. 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)



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PRODUCT SPECIFICATIONS

The stick will normally dissolve in 20 to 80 minutes depending on temperature, salt content, and relative water motion **SUPER FOAM STICKS** are 100% soluble in water and insoluble in oil. The melting point of the sticks is 122°F. The stick will dissolve in water in wells with BHT below 122° (just at a slower rate). Lab tests indicate the dissolving rate in 50,000 PPM moving brine water to be 72 minutes @ 100°, 25 minutes @ 120°, 8 minutes @ 140°, and 3 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. The specific gravity is 1.11. 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.

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

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