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ULTRAFOAM SELF AGITATING SOAP STICKS

(Medium Foamer-Self Agitation-Water-Condensate to 25%)



Altachem Part # ACL-031 - AC-31 UltraFoam Self Agitating Stick

Water Soluble Bag-Cardboard Tube		Color-Grey/Black Specs	TDG-Regulated	Ocean Freight
ULTAFOAM SELF AGITATING SOAPSTICK SIZES			PER BBL (INITIAL SLUG TREATMENT	WEIGHT
¾ X 15	.75 X 15	19.05 x 381 mm	3-5 Sticks Per 1 BBL of Fluid	.344 LBS
1 ¾ x 15	1.25 x 15	31.75 x 381 mm	1-3 Sticks Per 1 BBL of Fluid	.66 LBS

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

HS Code	
Form	Solid
Color	Grey/Black
pH	7-8.5
Specific Gravity	1.14

Regulations	TDG - Regulated
Melting Point	122°F (50°C)
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 **ULTRAFOAM SELF AGITATING 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 **ULTRAFOAM SELF AGITATING SOAP 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.

ULTRAFOAM SELF AGITATING SOAP STICKS are water-soluble sticks containing a combination of surfactants and additional additives to self-activate and speed up the foam stick dissolving rate and activation of the foam process down hole in the existing produced fluids. The self-activating additive and surfactants react immediately upon contact with water and creates an effervescing effect to help establish the foam column required to help remove the fluids from down hole in most cases. The **ULTRAFOAM SELF AGITATING SOAP STICKS** has been found to be effective in speeding up the foaming process in wells with bottom hole temperature below 90 degrees Fahrenheit. In addition to the effervescing effect of the **ULTRAFOAM SELF AGITATING SOAP STICKS**, natural gas bubbling through the water-column and surfactants produces foam, which can help remove water from watered-up gas wells.

PRODUCT USES & ADVANTAGES

ULTRAFOAM SELF AGITATING SOAP STICKS are primarily used to remove water from gas wells and increase gas production. This foaming action decreases the hydrostatic backpressure which increases gas production that further enhances the foaming action until the well unload

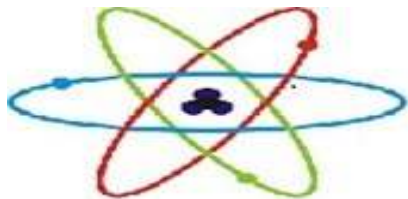
SUPERFOAM STICKS can be used to remove fluid from gas-condensate wells and flowing oil wells. They can be used in conjunction with **GAS STICKS™** to kick off totally dead and watered up wells. (PLEASE REFER TO HOW TO REVIVE A DEAD WELL (on website under treatments) which has been a very successful.

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 & cardboard tube. 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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PRODUCT USES & ADVANTAGES (continued)

ULTRAFOAM SELF AGITATING SOAP 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 **ULTRAFOAM SELF AGITATING SOAP STICKS**

ULTRAFOAM SELF AGITATING SOAP STICKS can be used to increase the swabbing efficiency and life of swab cups. The extremely slick coating along with the foaming action increases efficiency and life of the swab cups and allows the well to flow easier. The perforations are often cleaned as a result of the surfactants and swabbing action.

ULTRAFOAM SELF AGITATING SOAP 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. **ULTRAFOAM SELF AGITATING SOAP 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 **ULTRAFOAM SELF AGITATING SOAP STICKS** to be used is based on the volume of water above the perforations. Field test indicate that the best results were achieved by using a larger initial slug treatment of 1/2 to 1 percent by weight of **ULTRAFOAM SELF AGITATING SOAP STICKS** to water above the perforations. A treatment of 1/2 to 1 percent by weight would require approximately 1.75 to 3.50 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. Wait 45 seconds or 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 top of fluid) flow well about 25 percent 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. 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 stick will normally dissolve in 20 to 80 minutes depending on temperature, salt content and relative water motion. **ULTRAFOAM SELF AGITATING SOAP STICKS** are virtually soluble in water and insoluble in oil. The melting point of the stick is 122 degrees Fahrenheit. The stick will dissolve in water in wells with BHT below 122 degrees (just at a slower rate). Lab tests indicate the dissolving rate in 50,000 PPM moving brine water to be 35 minutes @ 100 degrees, 15 minutes @ 120 degrees, 5 minutes @ 140 degrees and 1 minute @ 180 degrees. 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 1.1. The falling rate through freshwater is approximately 100 feet per minute. The stick 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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