



ALTACHEM LTD.

Technical Data Sheet

Altachem Part No: AC-52 Series

EDMONTON STOCK SIZE

Select Part No: BT-10

MAXFOAM SOAP STICKS

(VERY HIGH FOAMER FOR WELLS) (OK IN CONDENSATE TO 40%)

			Color – Green	Packaging – Water Soluble Bag			
			TDG – Non-Regulated Product		Allowable – Air or Ocean Freight		
MAXFOAM SOAP STICK SIZES			STICKS INITIAL SLUG TREATMENT		Weight Ea. Stick.		
3/4 x 15	.75 X 15	19.05 x 381 mm	2 - 4 Sticks Per 1 BBL of Water		6 oz.	.375 lbs.	170.25 g.
1 1/4 x 15	1.25 x 15	31.75 x 381 mm	1 - 2 Sticks Per 1 BBL of Water		13.6 oz.	0.85 lbs.	385.9 g.
THE ESTIMATED HYDROSTATIC BACK-PRESSURE REDUCTION FOR EACH BARREL OF WATER REMOVED (FOR VARIOUS TUBING SIZES) IS SHOWN BELOW (BASED ON .43 PSI PER FOOT OF DEPTH)							
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	3402.9010.09		Regulations		NON-TDG		
Form	Solid		Melting Point		125°F – 51.7°C		
Color	Green		Solubility in Water		100%		
pH	7 - 8		Solubility in Brine		100%		
Specific Gravity	1.16		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 **MAXFOAM 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 **MAXFOAM 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 **MAXFOAM SOAP STICKS** to provide agitation energy.

MAXFOAM SOAP 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

MAXFOAM 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

MAXFOAM 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 **MAXFOAM SOAP STICKS**. 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 very successful.

MAXFOAM SOAP 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.

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. Balls should be stored in a cool dry place. Always remove ball from plastic bag or cardboard tube before using. Bag or tube can be used as a glove to avoid contact with hands.

DISCLAIMER OF LIABILITY

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PRODUCT USES & ADVANTAGES (Continued)

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

MAXFOAM 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. They 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 **MAXFOAM 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 0.0125 % to 0.025 % by weight of **MAXFOAM SOAP 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 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 rate. 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 stick will normally dissolve in 20 to 80 minutes depending on temperature, salt content, and relative water motion **MAXFOAM SOAP 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.

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