



ALTACHEM LTD.

Technical Data Sheet

Altachem Part No: AC-76 Series

EDMONTON STOCK SIZE

Select Part No: FS-1233

HYDRAFOAM SOAP STICKS

(EXCELLENT IN HIGH HYDROCARBON WELLS - CONDENSATE TO 60%)

			Color – Green	Packaging – Cardboard		
			TDG – Non-Regulated Product	Allowable – Air or Ocean Freight		
HYDRAFOAM SOAP STICK SIZES			STICKS INITIAL SLUG TREATMENT	Weight Ea. Stick.		
3/4 X 15	.750 X 15	17.48 X 381 mm	8 - 17 Sticks per BBL of Fluid	6 oz.	0.375 lbs.	170.25 g.
1 1 / 4 X 15	1.25 X 15	31.75 X 381 mm	2 - 4 Sticks per BBL of Fluid	11.9 oz	0.74375 lbs	337.6625 g.
Estimated hydrostatic back pressure reduction for ea. BBL of water removed (for various tubing sizes)						
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		TDG	
Form	Solid		Melting Point		125°F – 5°C	
Color	Green		Solubility in Water		100%	
pH	6.0 – 7.6		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 ***HYDRAFOAM 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 ***HYDRAFOAM 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.

HYDRAFOAM SOAP STICK are water soluble sticks containing a combination of surfactants designed to remove water from watered-up gas wells. Natural gas bubbling through the water-column and this combination of surfactants produces foam, and this foaming action decreases the hydrostatic backpressure which increases gas production that further enhances the foaming action until the well unloads.

PRODUCT USES & ADVANTAGES

HYDRAFOAM 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 unloads.

HYDRAFOAM SOAP 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 very successful.

HYDRAFOAM SOAP STICKS can be used to remove fluid from gas-condensate wells and flowing oil wells. For gas-condensate wells with more than 60% condensate, it is recommended to use ***OIL FOAM STICKS™*** with ***HYDRAFOAM SOAP STICKS***.

HYDRAFOAM 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.

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)

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

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

TREATMENT DETERMINATION & PROCEDURE FOR WATER REMOVAL

The number of **HYDRAFOAM 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 ½ to 1 percent by weight of **HYDRAFOAM SOAP STICKS** to water above the perforations. A treatment of ½ to 1 percent by weight would require 1.75 to 3.50 lbs. of stick per barrel of water

THE MOST COMMON PROCEDURE

Is to shut-in the well and drop sticks through a lubricator. Wait 45 seconds 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.**

PRODUCT SPECIFICATIONS

The stick will normally dissolve in 20 to 80 minutes depending on temperature, salt content, and relative water motion. **HYDRAFOAM SOAP STICKS** are 100% soluble in water and dispersible in oil. The melting point of the sticks is 120°F. The stick will dissolve in water in wells with BHT below 120° (just at a slower rate). Lab tests indicate the dissolving rate in 50,000 PPM moving brine water to be 36 minutes @ 100°, 12 minutes @ 120°, 4 minutes @ 140°, and 1 minute @ 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 1.10. 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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