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HYDRO-CARBON SOAP STICK (FS1259) (Foamer-Water-Condensate to 65%)

			Altachem Part Hydro-Carbon Soap Stick # FS-1259 Soap Stick	
Cardboard Tube	Color-Green		TDG-Not Regulated	Air Or Ocean Freight
FS-1259 SOAP STICK SIZES			PER BBL (INITIAL SLUG TREATMENT	WEIGHT
5/8 X 15	.625 X 15	19.05 x 381 mm	6-14 Sticks Per 1 BBL of Fluid	0.24375 LBS
1 ¼ x 15	1.25 x 15	31.75 x 381 mm	2-4 Sticks Per 1 BBL of Fluid	.075 LBS
1 5/8 x 18	1.625 x 18	41.275 x 457.2 mm	1-2 Sticks Per 1 BBL of Fluid	1.4375 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	3402-9010-00
Form	Solid
Color	Green
pH	7-8
Specific Gravity	1.11

Regulations TDG	Non-Regulated
Melting Point	122°F(49.9°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 **FS-1259 SOAPSTICKS** 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 **FS-1259 SOAPSTICKS** 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 **SUPERFOAMSTICKS** to provide agitation energy.

FS-1259 SOAPSTICKS 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

FS-1259 SOAPSTICKS are designed to be used for wells making 5-10 barrels of water (0-200,000 PPM Chlorides) per day and up to 75% hydrocarbon content.

FS-1259 SOAPSTICKS 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.

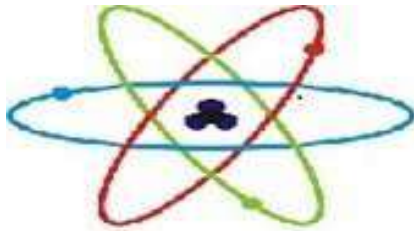
FS-1259 SOAPSTICKS can be used to remove fluid from gas-condensate wells and flowing oil wells. They can be used in conjunction with **GASSTICKS™** to kick off totally dead and watered up wells. (**PLEASE REFERTO HOW TO REVIVE A DEAD WELL (on website under treatments)**) which has been a very successful.

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 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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PRODUCT USES & ADVANTAGES (continued)

FS-1259SOAPSTICKS can be used to remove fluid from gas-condensate wells and flowing oil wells. For gas-condensate wells with more than 35% condensate, it is recommended to use **OILFOAMSTICKS™** in conjunction with **FS-1259SOAPSTICKS**

FS-1259SOAPSTICKS 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 because of the surfactants and swabbing action.

FS-1259SOAPSTICKS are used in water injection wells in combination with **ACIDSTICKS** to help reduce injection pressures. Surfactants contained in **FS-1259SOAPSTICKS** can help remove oil coatings on scale. This helps the **ACIDSTICKS**® react with the exposed scale.

FS-1259SOAPSTICKS 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 **FS-1259SOAPSTICKS** 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 **FS-1259SOAPSTICKS** 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 10 to 40 minutes depending on temperature, salt content, and relative water motion. **FS-1259SOAPSTICKS** are 100% soluble in water and insoluble in oil. The melting point of the sticks is 119QF. The stick will dissolve in water in wells with BHT below 119Q (just at a slower rate). Lab tests indicate the dissolving rate in 50,000 PPM moving brine water to be 36 minutes @ 100Q, 12 minutes @ 120Q, 4 minutes @ 140Q, and 1 minute @ 180Q. 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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