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FS-1253C

(Condensate Foamer-Water to 40% -Condensate over 60%)

			Altachem Part # FS-1253C Soap Stick	
Water-Soluble Tube		Color-Orange	TDG-Not Regulated	Air Or Ocean Freight
FS-1253C SOAP STICK SIZES			PER BBL (INITIAL SLUG TREATMENT	WEIGHT
1 ¼ x 15	1.25 x 15	31.75 x 381 mm	2-4 Sticks Per 1 BBL of Fluid	.074 LBS
1 5/8 x 18	1.625 x 18	41.275 x 457.2 mm	1-2 Sticks Per 1 BBL of Fluid	1.49 LBS

Estimated hydrostatic back pressure reduction for ea. BBL of water/condensate 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	Orange
pH	6.0-7.5
Specific Gravity	1.08

Regulations TDG	Non-Regulated
Melting Point	130°F(54.5°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-1253C 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 **FS-1253C 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.

FS-125C SOAP STICKS 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-1253C SOAP STICKS are designed to be used in wells with hydrocarbons higher than 60%. Some water must be present to enhance the **FS-1253C SOAP STICKS** foaming action in wells with BHT less than 130°F. **FS-1253C SOAP STICKS** are recommended only when over 60% of fluid column is composed of condensate. If the fluid column contains over 40% water, it is recommended to use Foam sticks designed for higher water content only or a combination of both **FS-1253C SOAP STICKS** and foam sticks to be more effective in removing the fluid.

FS-1253 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™** in conjunction with **FS-1253 SOAP STICKS**

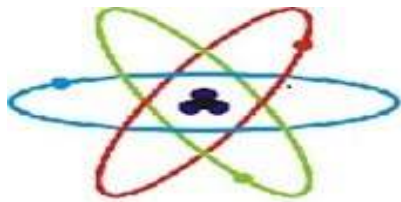
FS-1253 SOAP STICKS can be used to increase the swabbing efficiency and life of swab cups. The extremely slick coating along with the foaming action increases efficiency and life of the swab cups and allows the well to flow easier. The perforations are often cleaned because of the surfactants and swabbing 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. 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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FS-1253 SOAP STICK **(Faster Reaction Low Foam-Water-Condensate to 60 %)**

PRODUCT USES & ADVANTAGES (continued)

FS-1251 SOAP STICKS are used in water injection wells in combination with **ACID STICKS**® to help reduce injection pressures. Surfactants contained in **FS-1253** can help remove oil coatings on scale. This helps the **ACID STICKS**® react with the exposed scale.

FS-1253 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 **FS-1253 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 **FS-1253 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 10 to 40 minutes depending on temperature, salt content, and relative water motion. **FS-1253 SOAP STICKS** are 100% soluble in water and insoluble in oil. The melting point of the sticks is 119°F. The stick will dissolve in water in wells with BHT below 119° (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 1.09. 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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