



# ALTACHEM LTD.

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PRODUCT DATA SHEET

## FISHER KING SC-21 FOAM STICKS (Low-Medium Foam for Water & Condensate to 35%)

Cardboard Tube	Color-Red	TDG-Not Regulated	Air Or Ocean Freight
<b>FISHER KING SC-21 STICK SIZES</b>		<b>PER BBL (INITIAL SLUG TREATMENT)</b>	
5/8 x 15	.625 x 15	15.88 x 381 mm	8-17 Sticks Per 1 BBL of Water
3/4 x 15	.75 X 15	19.05 x 381 mm	5-10 Sticks Per 1 BBL of Water
1 x 15	1 x 15	25.4 x 381 mm	3-6 Sticks Per 1 BBL of Water
1 1/4 x 15	1.25 x 15	31.75 x 381 mm	2-4 Sticks Per 1 BBL of Water
1 3/8 x 16	1.375 x 16	34.925 x 406.4 mm	1-3 Sticks Per 1 BBL of Water
1 5/8 x 18	1.625 x 18	41.275 x 457.2 mm	1/2 -1 Sticks Per BBL of Water

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

Form	Solid
Color	Red
pH	7-8
Specific Gravity	1.11

Melting Point	122°F
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 **FISHER KING SC-21 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 **FISHER KING SC-21 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.

**FISHER KING SC-21 STICKS** are designed to be used for wells making 5-10 barrels of water (0-200, 000 PPM Chlorides) and up to 60% condensate. For gas-condensate wells with more than 35% condensate, it is recommended to use **SUPER FOAM STICKS OR SLICKWILLIE OILFOAM STICKS** for up to 65% condensate. When the fluid is over the 65% condensate mark it is best to use either the **OILFOAM STICKS** or the **CONDENSATE STICK** which can handle much greater amounts of this type of fluid. When the ratios of Condensate and Water are unknown the **SKICKWILLIE OILFOAM STICK** is a good choice. **FISHER KING SC-21 STICKS** may also be used in combination with the **ACID STICKS®** in water injection wells to remove oil coating on scale allowing the **ACID STICKS®** to react with the exposed scale helping reduce injection pressures.



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### PRODUCT USES & ADVANTAGES

**FISHER KING SC-21 STICKS** are primarily used to remove water from gas wells and increase gas production. The foaming action decreases the hydrostatic back-pressure which increases gas production that further enhances the foaming action until the well unloads.

**FISHER KING SC-21 STICKS** can be used to remove fluid from gas-condensate wells and flowing oil wells. For gas- condensate wells with more than 75% condensate, it is recommended to use OILFOAM STICKS in conjunction with **FISHER KING SC-21 STICKS**.

**FISHER KING SC-21 STICKS** are used to increase the swabbing efficiency and life of swab cups. The 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.

**FISHER KING SC-21 STICKS** are used in water injection wells in combination with **ACID STICKS**<sup>®</sup> to help reduce injection pressures. Surfactants contained in **FISHER KING SC-21 STICKS** can help remove oil coatings on scale. This helps the **ACID STICKS**<sup>®</sup> react with the exposed scale.

**FISHER KING SC-21 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.

### TREATMENT DETERMINATION & PROCEDURE FOR WATER REMOVAL

The number of **FISHER KING SC-21 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 **FISHER KING SC-21 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 BBL 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.



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### PRODUCT SPECIFICATIONS

The stick will normally dissolve in 20 to 80 minutes depending on temperature, salt content, and relative water motion. **FISHER KING SC-21 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.

### 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 or cardboard tube before 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

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