ALTACHEM LTD.

Technical Data Sheet

Altachem Part No: AC-35 Series	EDMONTON STOCK SIZE	Select Part No: N/A

SAND DISPERSANT SOAP STICKS

(High Foamer c/w Sand, Silt & Sludge Dispersant Water-Condensate to 45%)

Color – Yellow	Packaging – Cardboard Tube
TDG – Non-Regulated Product	Allowable – Air or Ocean Freight

SAND DISPERSANT SOAP STICK SIZES			STICKS INITIAL SLUG TREATMENT	Weight Ea. Stick.		
3/4 X 15	.750 X 15	17.48 X 381 mm	3 - 5 Sticks per BBL of Fluid	4.5 oz.	0.28125 lbs.	127.6875 g.
1 1 / 4 X 15	1.25 X 15	31.75 X 381 mm	1 - 3 Sticks per BBL of Fluid	11.5 oz	0.71875 lbs	326.3125 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	121°F – 50°C
Color	Yellow	Solubility in Water	100%
pH	7 – 8.5	Solubility in Brine	100%
Specific Gravity	1.09	Solubility in Crude	Insoluble

NOTE:

SAND FOAM STICKS *are* water-soluble sticks containing a blend of surfactants and additional additives and are *designed to convert dense sludge and silt deposits into light non adherent agglomerates that permit easy dispersion.* Foaming Agents are added to produce desired lift of water as well. The ***SAND FOAM STICK*** has been found to been effective in speeding up the foaming process in wells with bottom hole temperatures below 90 degrees Fahrenheit Natural gas bubbling through the water-column, surfactants and additives produce foam which can help remove water from watered-up gas wells.

The above amount of ***SAND FOAM STICKS*** is recommended for an initial slug treatment. Removing the top few hundred feet of fluid may be sufficient to allow the production of 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 sticks may be necessary to prevent production decline.

PRODUCT USES & ADVANTAGES

SAND FOAM STICKS are primarily used to disperse clay, mud sand, silt and sludge from wells and also 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.

SAND FOAM STICKS can be used to thin out dense clay, sludge and silt as well as create a lifting action in gas wells.

TREATMENT DETERMINATION & PROCEDURE FOR WATER REMOVAL

Treatment using ***SAND FOAM STICKS*** varies with the volume of water being produced and should be adjusted for high volume wells. In many cases one (1) or two (2) ***SAND FOAM STICKS*** every other day may be sufficient. Occasional use of ***Acid Sticks*** will also be helpful.

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

Altachem Ltd. // 5507-76th Avenue NW Edmonton, AB. Canada T6L 3T3 // PH: 1 (780) 414-1445 // Website: https://www.altachem.ca // Email: altachemltd@gmail.com altachem@gmail.com

ALTACHEM LTD.

Technical Data Sheet

Altachem Part No: AC-35 Series	EDMONTON STOCK SIZE	Select Part No: N/A

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 45 to 80 minutes depending on temperature, salt content, and relative water motion. ***SAND FOAM STICKS*** are 100% soluble in water and insoluble in oil. The melting point of the sticks is 122ºF. The stick will dissolve in water in wells with BHT below 122º (just at a slower rate). Lab tests indicate the dissolving rate in 50,000 PPM moving brine water to be 72 minutes @ 100º, 25 minutes @ 120º, 8 minutes @ 140º, and 3 minutes @ 180º. 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. 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

The information in this bulletin is believed to be accurate; however all recommendations are made without warratty since the conditions of use are beyond Altachem Ltd. control. Altachem disclaims any liability in connection with the use of the information and does not warrant against infringement by reason of the use of any of its' products in combination with any other material or in any process.

Altachem Ltd. // 5507-76th Avenue NW Edmonton, AB. Canada T6L 3T3 // PH: 1 (780) 414-1445 // Website: https://www.altachem.ca // Email: altachemltd@gmail.com altachem@gmail.com