



ALTACHEM LTD.

Technical Data Sheet

Altachem Part No: AC-33 Series

EDMONTON STOCK SIZE

Select Part No: Coal Bed Methane

COAL BED METHANE (HA-FWF) SOAP STICKS (SHALLOW WELLS – LOW BOTTOMHOLE TEMPERATURES – FAST ACTING)

			Color – White	Packaging – White Paper Wrap		
			TDG – Non-Regulated Product	Allowable – Air or Ocean Freight		
COAL BED METHANE STICK SIZES			STICKS INITIAL SLUG TREATMENT		Weight Ea. Stick.	
3/4 X 15	.750 X 15	17.48 X 381 mm	2 - 4 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	1 - 2 Sticks per BBL of Fluid		11.9 oz	0.74375 lbs 337.6625 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)						
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	3402.9010.09		Regulations		Non TDG	
Form	Solid		Melting Point		N/A	
Color	White Paper		Solubility in Water		100%	
pH	6 - 7		Solubility in Brine		100%	
Specific Gravity	2.67		Solubility in Crude		Insoluble	

COAL BED METHANE (HA FWF) STICKS are special foam sticks that contain 100% active surfactants, friction reducer and foam stabilizer in Paper Wrapped Tube. 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

COAL BED METHANE (HA FWF) STICKS were designed to be used in shallow gas wells with low bottomhole temperatures. They are fast acting sticks and will dissolve in cold fluids where other sticks can require more time to dissolve. **COAL BED METHANE (HA FWF) STICKS** are primarily used to remove water from gas wells. This foaming action decreases the hydrostatic backpressure which increases gas production that further enhances the foaming action until the well unloads.

COAL BED METHANE (HA FWF) STICKS can be used to remove condensate and water from gas condensate wells and flowing oil wells. For wells with more than 60% condensate it is recommended to use **OIL FOAM STICKS**.

COAL BED METHANE (HA FWF) STICKS contain 100% active powdered foamer in a Paper Wrapped Tube that can produce up to 4 times more foam than other sticks on the market. The sticks are shipped ready to use and will not dissolve in a cold dry storage.

COAL BED METHANE (HA FWF) STICKS are an economical way to remove water from gas wells without using expensive well servicing operations such as swabbing, jetting with coiled tubing, or installing artificial lift and siphon strings.

TREATMENT DETERMINATION & PROCEDURE FOR WATER REMOVAL

The number of **COAL BED METHANE (HA FWF) 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 1/8 to 1/4 percent by weight of **COAL BED METHANE (HA FWF) STICKS** to water above the perforations. A treatment of 1/8 to 1/4 percent by weight would require .44 to .88 lbs. of stick per barrel of water

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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TREATMENT DETERMINATION & PROCEDURE FOR WATER REMOVAL (Continued)

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 gas to blow out the remaining fluid in the well. To determine the optimum amount of periodic treatments you may choose to gradually reduce the initial treatment until an economical point is reached. Periodic treatments with **COAL BED METHANE (HA FWF) STICKS** may be necessary to prevent production decline due to gradual water buildup. Gas

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 30 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

COAL BED METHANE (HA FWF) STICKS are a powdered foamer in a Paper Wrap Water Soluble Tube so the foamer is released as soon as the tube starts to dissolve. This gives a quick foaming action in shallow gas wells with cold fluid. Also, since the foamer is in a powdered form, no hardeners are added leaving more active content in each stick.

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