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(ACL-030) PRODUCT DATA SHEET

KWIK N DRY SOAP STICKS
(High Foamer-Quick Response-Water-Condi to 35%-Coal Bed Methane)

Water Soluble Paper	Color-White Paper	TDG-Not Regulated	Air 0r Ocean Freight

KWIK N DRY STICK SIZES			PER BBL (INITIAL SLUG TREATMENT
1 X 10 ½	1 x 10.5	25.4 x 266.7 mm	1-2 Sticks Per 1 BBL of Fluid
1 ¼ x 7	1.25 x 7	31.75 x 177.8 mm	1-3 Sticks Per 1 BBL of Fluid
1 ¼ x 15	1.25 x 15	31.75 x 381 mm	½ -3 Sticks Per 1 BBL of Fluid

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	Tan (WST)
pH	7-8
Specific Gravity	1.16

Melting Point	125°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 **KWIK-N-DRY 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 **KWIK-N-DRY 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 **SUPERFOAM STICKS** to provide agitation energy.

KWIK-N-DRY SOAP STICKS are water-soluble sticks containing a high foaming surfactant formulated to dissolve quickly with little or no agitation. Natural gas bubbling through the water-column and surfactants produces foam which can help remove water from gas wells.

PRODUCT USES AND ADVANTAGES

KWIK-N-DRY SOAP STICKS are primarily used to remove water from gas wells and increase gas production. This foaming action decreases the hydrostatic back-pressure which increases gas production that further enhances the foaming action until the well unload

KWIK-N-DRY SOAP STICKS can be used to remove fluid from gas-condensate wells and flowing oil wells. They can be used in conjunction with GAS **STICKS™** to kick off totally dead and watered up wells. (PLEASE REFER TO HOW TO REVIVE A DEAD WELL (on website under treatment’s) which has been a very successful.

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KWIK-N-DRY SOAP STICKS can be used to remove fluid from gas-condensate wells and flowing oil wells. For gas-condensate wells with more than 20% condensate, it is recommended to use **OIL FOAM STICKS™** in conjunction with **SUPER FOAM STICKS**

KWIK-N-DRY SOAP STICKS is 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.

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

KWIK-N-DRY SOAP 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. **KWIK-N-DRY SOAP STICKS** can remove 1-3 barrels of water.

TREATMENT DETERMINATION & PROCEDURE FOR WATER REMOVAL

The number of **KWIK-N-DRY SOAP STICKS** to be used is based on Field tests which indicate that the best results were achieved by using a larger initial slug treatment of 1/2 to 1 percent by weight of sticks to water above the perforations. This would require 1.75 to 3.50 LB of stick per BBL of water. 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 may be necessary to prevent production decline due to the gradual water build-up. If a well is totally dead, **GAS STICKS** may be used in conjunction with **SUPERFOAM STICKS** to provide agitation energy

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 5 to 15 minutes depending on temperature, salt content, and relative water motion. **CBM (CHICO) SOAP STICK** 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.

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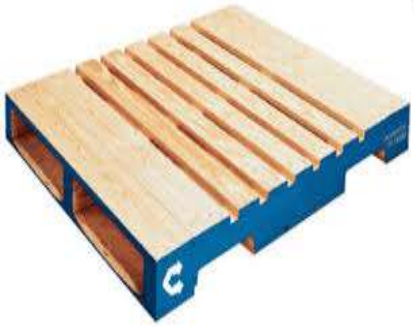
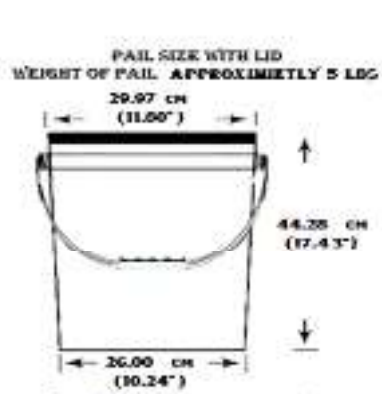
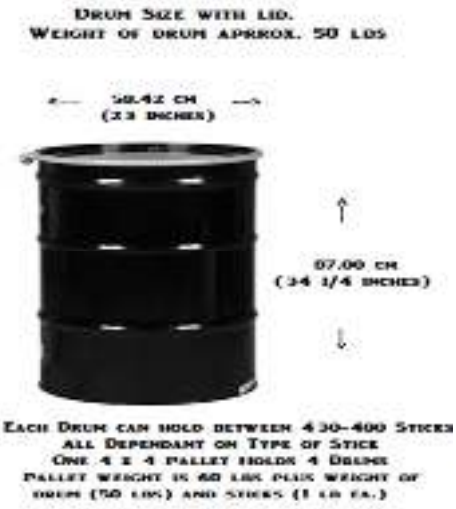
INTERNATIONAL PACKAGING



48 x 40 Pallet can hold 4 drums or 24 pails
Aprroximate Weight is between 50 to 60 lbs



Each Stick weighs approx. 1 lb
Each Pail can hold between 43-50 sticks
all dependant of type of stick requeed
A 4 x 4 pallet weighs 60 lbs and can
contain up to 24 pails (5 lbs) plus
the sticks at (1 lb ea)



Each Drum can hold between 430-400 Sticks
all Dependant on Type of Stick
One 4 x 4 pallet holds 4 Drums
Pallet weight is 60 lbs plus weight of
drum (50 lbs) and sticks (1 lb ea.)

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

DISCLAIMER OF LIABILITY

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