



### Fillable at Site with all Types of Chemicals

*The most concentrated types of sticks are put into Water Soluble Tubes or Water Soluble Paper which is recommended for the Lightning Automatic stick Launcher. The tube acts as a tough skin to surround the chemical and the only environmental exposer is the tube itself. This is a safety feature since the tube is essentially non-toxic. When regular hard sticks are manufactured a hardener must be used to raise the melting poi of the chemical for use up to 120 degrees Fahrenheit. The amount of hardener reduces the active ingredient. Even though as a rule sticks made using a soluble tube are more expensive, they are often a better value and fewer sticks are used due to higher concentration of the active ingredients. The tube also acts like a glove to protect the users hand from direct chemical contact with the chemical. The soluble tube reaches deeper in the fluid column before dissolution, which helps remove more fluid, from the well.*

### ABOUT THE TUBES:

*Water Soluble Tubes are made from modified water-soluble polymers and are soluble in fresh and salt water. Dissolving time is a function of the type of water and temperature. Under average conditions (40,000 PPM to 60,00000M of salt and 160 D Fahrenheit) Water Soluble Tubes will dissolve in approximately 12-16 minutes.*

### WATER SOLUBLE TUBES USAGE:

Water Soluble Tubes are very useful in delivering small quantities of foaming agents and other types of chemicals down to the bottom of oil, gas and water wells where they need to be treated for certain types of problems. The greatest use of water soluble tubes is in the delivery of concentrated foaming agents to the bottom of gas wells for water removal.

### OTHER USAGES:

*Liquid foaming agents may be poured into the water soluble tubes at the well location (many companies are using this method) and dropped directly into wells. When this procedure is used with water based liquids, the tube must be dropped very quickly or it will dissolve. Highly concentrated foaming agents that are gelled are often used in the soluble tubes because they are stable and have a long shelf life. These types of systems allow the operator to deliver the most concentrated chemical agents to the bottom of his wells.*

### PRODUCT SPECIFICATIONS:

Temperature in degrees Fahrenheit / Stick sizes in inches. *This stick will dissolve in about 5 to 15 minutes depending on temperature, salt content, and relative water motion.* These sticks are 100% soluble in water and insoluble in oil. The soluble tube will melt at 130 degrees. The stick will dissolve in water in wells with BHT below 130 degrees but at a slower rate. *The specific gravity is 1.35. The falling velocity through fresh water is approximately 100 feet per minute.*

ALTACHEM LTD.

5507-76th Ave. EDMONTON, AB. T6B 0A7

Cell: (780) 907-2357 (Peter)

FAX: 780-414-1446

Email: [altachem@shaw.ca](mailto:altachem@shaw.ca)

PH: 780-414-1445  
[www.altachem.ca](http://www.altachem.ca)

TF: 1-866-414-1445  
[www.altachem.net](http://www.altachem.net)


**TUBE SIZES AND CAPS**

OUTSIDE DIAMETER	LENGTH OF TUBE
.675 (5/8")	15"
	10"
.75 (3/4")	15"
	18"
1.2	10"
	15"
	17"
	18"
	21"
	30"
1.25 (1 1/4")	10"
	12"
	15"
	18"
	21"
	30"

**SPECIAL DIAMETERS AND LENGTH AVAILABLE UPON REQUEST**
**CAN BE ORDERED WITH EITHER SAL CAPS OR REGULAR CAPS ONE ATTACHED ON ONE END**
**FOR INDUSTRIAL USE ONLY:**

**CAUTION:** As with all industrial chemicals, contact with eyes or skin should be avoided. Wash thoroughly with water. Pellets should be stored in a cool dry place. Always remove pellets from the container with the scoop provided while wearing rubber gloves to avoid skin contact. Goggles are advised.

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