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## **CORROSION INHIBITOR STICKS - (Type A)**

CORROSION INHIBITOR STICKS Type A are water dispersible and oil-soluble sticks that contain a blend of Imidazolines which have excellent filming characteristics and low emulsion tendencies. This unique blend gives effective corrosion control for most oil field corrosion problems.

### **PRODUCT USES**

CORROSION INHIBITOR STICKS can primarily be used to control common corrosion problems found in producing oil and gas well systems. CORROSION INHIBITOR STICKS can be used to treat hard to reach areas. Dead areas such as the annulus space above the packer, rat-holes, or the bottom of water supply tanks may be easily treated with CORROSION INHIBITOR STICKS.

### **PRODUCT ADVANTAGES**

CORROSION INHIBITOR STICKS can provide corrosion control throughout the entire production system. Regular usage of CORROSION INHIBITOR STICKS will help control corrosion problems at the point where they begin...down hole.

CORROSION INHIBITOR STICKS are available in two different formulations (oil-soluble and water-dispersible) or (water soluble and oil-dispersible). The oil-soluble type is soluble in oil, condensate and wet gas and can slowly disperse inhibitor into the water phase. The water-soluble type is soluble in water and can slowly disperse inhibitor into the oil phase.

CORROSION INHIBITOR STICKS can effectively inhibit corrosion in wells that produce both water and distillate or oil phases. In this case, it may be desirable to treat the well with both types of sticks by first dropping water-soluble sticks and allowing them to fall through the oil and into the water (dissolving and releasing inhibitor in the water column). Then drop the oil-soluble sticks which will "FLOAT" at the oil-water contact (slowly dissolving and releasing inhibitor in the oil column).

CORROSION INHIBITOR STICKS are economical (as compared to convention corrosion control operations) and saves investment in pumps, drums of chemical, and equipment maintenance.

CORROSION INHIBITOR STICKS may be used in wells with bottom-hole temperature (BHT) up to 375°F.

## **CORROSION INHIBITOR STICKS Type A**

### **TREATMENT DETERMINATION**

The number of CORROSION INHIBITOR STICKS required is based on the volume of total fluid produced (oil or condensate plus water). Field experience indicated that for most corrosive environments the best results are achieved by using a larger initial slug treatment (80 PPM daily) until the problem is under control then reduce to smaller periodic treatments (40 PPM daily) thereafter. EXAMPLE: An initial slug treatment of 80 PPM would require 0.64 lbs of CORROSION INHIBITOR STICK per 24 BBL (1,000 gallons) of total fluid produced.

CORROSION INHIBITOR STICK SIZES	STICK RATIO (Initial Slug Treatment)
SENIOR (1 5/8" x 18")	1 stick per 58 BBL'S of total fluid
JUNIOR (1 3/8" x 16")	1 stick per 40 BBL'S of total fluid
JUNIOR (1 1/4" x 15")	1 stick per 29 BBL'S of total fluid
THRIFTY (1" x 15")	1 stick per 18 BBL'S of total fluid
MIDGET (5/8" x 15")	1 stick per 7 BBL'S of total fluid

**NOTE:** To successfully control any corrosion problem, the inhibitor insertion into the fluid stream must be constant. For intermittent treatment or for extreme corrosive environments increase the number of sticks accordingly.

**THE MOST COMMON PROCEDURE** for producing wells is to shut-in well and drop sticks through lubricator. Leave well shut until sticks fall to the bottom. The time in minutes for the sticks to fall to the bottom (assuming well is shut-in with fluid at surface) is equal to the depth divided by 100. (Time, min. = Depth, ft / 100). FOR WATER INJECTION SYSTEMS drop the sticks into the water supply tank to inhibit more of the system.

### **PRODUCT SPECIFICATIONS (OIL & WATER SOLUBLE TYPES)**

**OIL-SOLUBLE:** The stick will dissolve in 20 to 120 minutes (in moving diesel) depending on temperature, salt content and relative fluid motion. The stick will melt at 135°F. The specific gravity is 0.95.

**WATER-SOLUBLE:** The stick will dissolve in 12 to 24 hours (in 50,000 PPM moving brine water) depending on temperature, salt content, and relative fluid motion. The stick will melt at 125°F. The specific gravity is 1.10.

### **PRODUCT PACKAGING**

SENIOR (1 5/8")	Case/Toolbox (24 sticks)	Pail – N/A	Chest (42 sticks)
JUNIOR (1 3/8")	Case/Toolbox (36 sticks)	Pail (42 sticks)	Chest (72 sticks)
JUNIOR (1 1/4")	Case/Toolbox (36 sticks)	Pail (45 sticks)	Chest (72 sticks)
THRIFTY (1")	Case/Toolbox (49 sticks)	Pail (72 sticks)	Chest (98 sticks)
MIDGET (5/8")	Case/Toolbox (108 sticks)	Pail (155 sticks)	Chest (216 sticks)

**CAUTION:** As in all industrial chemicals, contact with eyes or skin should be avoided. Wash thoroughly with water. Sticks should be stored in a cool dry place. Always remove stick from plastic bag before using. Bag can be used as a glove to avoid contact.

### **DISCLAIMER OF LIABILITY**

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