

Asphaltene Dispersant Sticks

ASPHALTENE DISPERSANT STICKS™ are oil-soluble sticks that release ASPHALTENE DISPERSANT to help reduce paraffin deposition from crude oil in production systems. ASPHALTENE DISPERSANT STICKS™ contain a combination of micro-crystalline wax and a special crystal modifier. These ingredients contribute to an effective inhibiting process on certain ranges of molecular weight paraffin's.

PRODUCT USES & ADVANTAGES:

ASPHALTENE DISPERSANT STICKS™ are primarily used to prevent asphaltene and paraffin build up in crude oil and natural gas production systems. ASPHALTENE DISPERSANT STICKS™ are not designed to remove existing paraffin deposits but can soften these deposits and often make conventional paraffin cutting operations easier and faster. Also dilutes heavier oils in natural gas systems to make them lighter so the well can unload while keeping buildup on perforations at a minimum.

ASPHALTENE DISPERSANT STICKS™ help inhibit paraffin deposition and thin out heavy oils (asphaltene's). This method keeps paraffin particles and asphaltene particles from sticking together. ASPHALTENE DISPERSANT STICKS™ are effective on certain ranges of molecular weight paraffin's and all types of asphaltene buildup in natural gas wells. Testing the sticks for effectiveness can be done by simply trying the sticks in the field or by testing the crude oil or asphaltene solution in the laboratory. To be effective, the stick must be in solution in the oil or water before paraffin or asphaltene dissipation or precipitation starts to occur.

ASPHALTENE DISPERSANT STICKS™ are very economical (as compared to conventional paraffin cutting and removal operations) and can eliminate or delay the need for conventional paraffin removal operations. Continuous treatment with ASPHALTENE DISPERSANT STICKS™ (especially after a conventional paraffin removal job) can extend the time period between future operations.

ASPHALTENE DISPERSANT STICKS™ can keep your well flowing preventing buildup on the perforations and keeping the asphaltene's in lighter form so the well may produce.

ASPHALTENE DISPERSANT STICKS™ can be dropped directly into a producing well or inserted into an oil flow line (using a T-Connection Pipe) or dropped into the oil storage tanks. Dropping the sticks directly into the well is more desirable as more of the production system can be protected. ASPHALTENE DISPERSANT STICKS™ are economical (as compared to convention corrosion control operations) and saves investment in pumps, drums of chemical, and equipment maintenance.

TREATMENT DETERMINATION & PROCEDURE

The number of ASPHALTENE DISPERSANT STICKS™ is based on the volume of crude oil to be treated. Laboratory tests indicate that periodic treatments of 50 PPM can help control paraffin deposition. A treatment of 50 PPM would require 0.37 lbs of ASPHALTENE DISPERSANT STICK™ per 24 BBL'S (1,000 gallons) of crude oil produced. Or in the case of natural gas well adding them the opposing day you would add soap sticks.

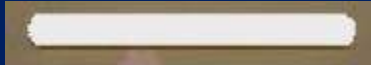
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Tech Data Sheet
ACL-73 (AC-73) SERIES

ASPHALTENE DISPERSANT STICK
CARBOARD TUBE (OFF WHITE)

Tech Data Sheet
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PART NUMBER	STICK SIZES	STICK RATIO INITIAL SLUG TREATMENT
ACL-7350	1 1/4 X 15	1 STICK PER 41 BBL's OF Total Fluid

NOTE:

Superior results are obtained by using ASPHALTENE DISPERSANT STICKS™ regularly and immediately after a well is cleaned. To successfully control any paraffin problem, the inhibitor insertion into the fluid stream much be constant and be present in fluid before paraffin deposition starts to occur. **For best results in intermittent treatment increase the number of sticks accordingly. Stick will float and dissolve at oil and water contact point in well. In natural gas wells it is optimum to drop asphaltene sticks on days a soap stick is not introduced in the formation.**

PRODUCT SPECIFICATIONS

IN OIL-- *The stick will dissolve slowly in 1 to 4 hours and release inhibitor gradually into the production system depending on temperature, crude oil solubility, and relative fluid motion. The stick will melt at 140°F. The stick will dissolve in oil in wells with BHT less than 140° (just at a slower rate). The specific gravity is 0.83. The falling velocity through oil is approximately 100 feet per minute.*

IN WATER -- *The stick will dissolve in 12 to 24 minutes (in moving water or when falling through water) depending on temperature, salt content, and relative water motion. The stick will melt at 132°F. The stick will dissolve in water in wells with BHT below 132° (just at a slower rate). If slowing the dissolving rate is desired (for wells above 132°), coat asphaltene INHIBITOR STICK™ with oil or grease. The specific gravity is 1.15. The falling velocity through fresh water is approximately 100 feet per minute.*

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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