



Gas Well Supply

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Technical Information

P I C – 510 PARAFFIN INHIBITOR CAPSULES

PRODUCT DESCRIPTION

P I C – 510 are oil-soluble capsules that release paraffin inhibitor to help reduce paraffin deposition from crude oil in production systems. **P I C – 510** 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.

P I C – 510 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. **P I C – 510** will melt at 140°F. **P I C – 510** will dissolve in oil in wells with a 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.

PRODUCT FEATURES

P I C – 510 are primarily used to prevent paraffin deposition in crude oil production systems. **P I C – 510** are not designed to remove existing paraffin deposits but can soften these deposits and often make conventional paraffin cutting operations easier and faster.

P I C – 510 inhibit paraffin deposition by the crystal modification method. This method keeps paraffin particles from sticking together. **P I C – 510** are effective on certain ranges of molecular weight paraffin. Testing the capsules for effectiveness can be done by simply trying the capsules in the field or by testing the crude oil in the laboratory. To be effective, the inhibitor must be in solution in the oil before paraffin precipitation starts to occur.

PRODUCT ADVANTAGES

P I C – 510 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 **P I C – 510** (especially after a conventional paraffin removal job) can extend the time period between future operations.

P I C – 510 are safe to handle and easy to use by less experienced field personnel and are compatible with normal oil field corrosion inhibitors and production chemicals.

P I C – 510 can be poured directly into a producing well or poured into the oil storage tanks. Pouring the capsules directly into the well is more desirable as more of the production system can be protected.

TREATMENT AND PROCEDURE FOR PRODUCTION OPERATIONS

The number of **P I C – 510** 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 **P I C – 510** per 24 BBL'S (1,000 gallons) of crude oil produced.

NOTE: Superior results are obtained by using **P I C – 510** regularly and immediately after a well is cleaned. To successfully control any paraffin problem, the inhibitor insertion into the fluid stream must be constant and be present in fluid before paraffin deposition starts to occur. For best results in intermittent treatment increase the number of capsules accordingly. Capsules will float and dissolve at oil and water contact point in well.

STORAGE AND HANDLING

P I C – 510 should be stored in a cool, dry location. **P I C – 510** come packaged in poly pail (40 lbs) and are available in bulk quantities upon request. As with all industrial chemicals, contact with eyes or skin should be avoided. Wash thoroughly with water. Always remove capsules from the container with the scoop provided while wearing rubber gloves to avoid skin contact. Goggles are advised. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of **P I C – 510**.