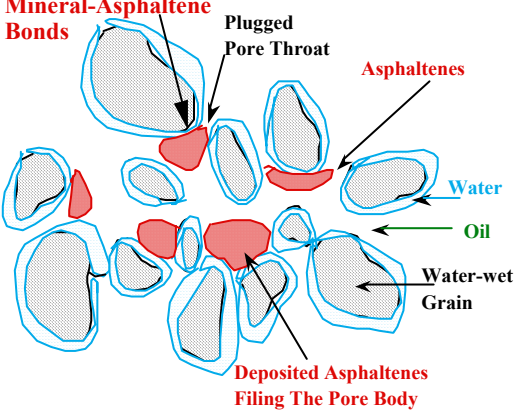


InSolSM A^W

A Powerful Asphaltene and Wax Inhibitor & Solvent

<p>InSol Breaks the Mineral-Asphaltene Bonds</p>  <p>InSol Removes Effectively Near-Wellbore Asphaltene-Induced Formation Damage</p>	<p>InSol's unique capabilities:</p> <ul style="list-style-type: none"> • Breaks mineral-asphaltene bonds • Breaks asphaltene-asphaltene bonds • Disperses asphaltene particles • InSol's asphaltene carrying capacity is several times that of Xylene • InSol is a tested product that will not harm the formation • InSol treatments are very cost-effective
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InSolSM Removes and Mitigates Near-Wellbore Formation Damage

Asphaltene deposits contain large amounts of very complex, highly polar, and aromatic compounds that are not soluble in simple aromatic solvents like xylene. Many oil producers around the world use xylene as their stimulation solvent for removing asphaltene-induced formation damage. Because xylene always leaves behind in the formation some asphaltene deposits, there is gradual ever-increasing permanent formation damage. This permanent damage slowly spreads away from the well-bore and restricts the productivity of the well. In this case fracturing can restore production but in many cases the well requires re-fracturing or eventually it may have to be re-drilled.

InSol, because of its superb ability to break mineral-asphaltene and asphaltene-asphaltene bonds, is much more effective in removing organic formation damage. As a result, fewer treatments are necessary for every barrel of oil produced. Also, there is little or no permanent formation damage associated with InSol because most if not all of the organic deposit is removed in every treatment. The higher asphaltene removal efficiency of InSol also results in less frequent treatments. At the end of an InSol field stimulation treatment, a custom-designed version of InSol asphaltene inhibitor may be squeezed into the formation to maintain production at high levels and extend the time until the next treatment. The net result is a higher amount of oil production between treatments.

InSol Removes and Inhibits Asphaltene and Wax Deposition In Tubings, Flowlines, & Pipelines

InSol^A and InSol^{A/W} inhibitor/solvent batch treatments are used to remove difficult asphaltene & wax deposits from tubings, flowlines, and pipelines. Continuous injection of custom-designed InSol serves to inhibit the deposition of asphaltene & wax deposits from tubings, flowlines, and pipelines.