

FightR® Friction Reducers

HIGH VISCOSITY FRICTION REDUCERS FOR UNCONVENTIONAL FRACTURE STIMULATION

FightR® friction reducers effectively reduce friction and provide viscosity leading to efficient and successful stimulation treatments. They play a critical role in fracture operations because they reduce resistance between the fluid, the wellbore, and the fractured formation. They help overcome the resistance encountered during the fluid injection, allowing for the creation of longer, more extensive fractures. By using products that have viscosity in addition to friction reduction performance, you can achieve better proppant suspension and transport, reducing the potential for screen-outs that may lead to higher operating costs.

When large volumes of fluid are pumped at high pressures into the wellbore, FightR provides outstanding performance in demanding environments. Coupled with advanced testing, our experts will ensure high friction reduction and viscosity levels to deliver proppant deeper into the reservoir. FightR improves pumping efficiency by reducing the pressure drop caused by friction, which means using less energy required to pump the fluid. Improved efficiency translates into cost savings regarding pumping equipment and energy consumption.

FEATURES & BENEFITS

- » Get effective friction reduction, hydration, and cleanup.
- » Obtain high levels of friction reduction with low water salinity characteristics (up to 25,000 parts per million of total dissolved solids).
- » Gain rapid and efficient hydration in low-salinity waters.
- » Access a controlled polymer break and efficient cleanup to help provide more extensive flowing stimulated reservoir volume.



AVOID PREMATURE SETTLING AND ACHIEVE EFFECTIVE PROPPANT TRANSPORT

FightR friction reducers provide outstanding viscosity performance in more demanding environments because they target specific job designs and reservoir conditions. Whether it is the ability to provide viscosity to carry higher proppant concentrations farther into the formation, or to provide high levels of friction reduction in low-salinity waters at reduced concentrations, FightR friction reducers outperform conventional versions.

HIGH PERFORMING, COMPATIBLE FRICTION REDUCERS

A lack of viscosity can hinder proppant movement and reduce fracture conductivity, limiting the flow of hydrocarbons. Our high performing FightR friction reducers help to lower friction pressure, allowing you to achieve desired pump rates.

A friction reducer needs to be selected appropriately to deliver effective performance, which is why our FightR portfolio is complemented by an extensive, top-tiered screening process. Leveraging in-house technical expertise, we can recommend products that maximize performance, while lowering treatment costs.

During the screening process, we verify compatibility to prevent the fluid system from failing or losing friction performance, which can lead to elevated risk, costs, and inefficient operations.

We also gain insights into how the friction reducer will perform, by conducting a series of laboratory tests including friction flow loop, rheology, and regained permeability testing.

ADVANCED POLYMER BREAK AND CLEANUP

Polymer break and cleanup are critical for maintaining productivity, preserving well integrity, and maintaining efficient and responsible operations. If you do not break your polymer efficiently, it can block your fluid or form deposits, causing significant delays.

When bundled with OptiKleen-WF™ fracture cleaning enhancer, FightR provides optimized polymer breakup to avoid formation damage, equipment failure, and costly interventions. By breaking up polymer deposits, the permeability of the reservoir improves, allowing for better sweep efficiency and maximizing hydrocarbon production.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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