Excelerate™ Friction Reducers

FOcUSoN REDUCER CHEMISTRY FOR UNCONVENTIONAL STIMULATION APPLICATIONS

**OVERVIEW**

The Excelerate™ friction reducer portfolio provides exceptional performance and value for unconventional and tight gas fracture stimulations.

As unconventional stimulation treatment designs utilize more complex water quality, dependable friction reducer performance is paramount to successful treatment execution.

The friction reducer’s performance in the frac water and with fluid system additives is a critical factor in successfully executing the stimulation treatment and achieving the desired well productivity results for overall economic success. Within the Excelerate friction reducer portfolio, friction reducer fluid systems can be optimized to the desired performance metrics.

**OPTIMIZED FRICTION REDUCER DESIGN**

When a stimulation design is optimized and water characteristics are simple and consistent, friction reducer selection can be straightforward. However, when optimized treatments demand better cleanup for greater effective stimulated volume, or when they use source water with high salinity, advanced friction reducer chemistry is required. In these more challenging applications, friction reducer chemistry and performance are required that can excel beyond the limits of conventional chemistries. The Excelerate friction reducer portfolio offers just that – customized friction reducer systems designed for optimum performance in a wide range of complex applications.

**ADVANCED PERFORMANCE FOR THE MOST CHALLENGING APPLICATIONS**

Excelerate friction reducers can provide outstanding performance in dynamic environments. Whether it is the ability to provide exceptional friction reduction in fresh water or to effectively function in source water with higher total dissolved solids (TDS), Excelerate friction reducers deliver great results, with performance characteristics that include:

» High levels of friction reduction over a broad range of source water salinity characteristics, up to 300,000 parts per million of TDS

» Rapid and clean hydration in a broad range of water salinity

» Lower add rate concentration capability for lower residue and improved fracture system flow capacity by using fractions of gallons per 1,000 gallons of fluid

» Controlled polymer break and superior cleanup to help provide more extensive flowing stimulated reservoir volume.

» Compatibility with a broad range of fracturing fluid additives

**FEATURES**

» Extensive laboratory screening and field-tested chemistries

» Broad salinity range of application conditions

» Exceptional fracture cleanup in combination with OptiKleen-WF™ breaker

» Compatible with a wide range of stimulation fluid additives

**BENEFITS**

» Optimization of stimulation treatment designs to specific requirements

» Enables the use of produced water for stimulation

» Enhanced effective stimulated reservoir volume can be obtained from improved permeability retention

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

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