

Drillpac[®] Polymer



A DIVISION OF CHEVRON PHILLIPS
CHEMICAL COMPANY LP

Drillpac[®] Polymer is a Polyanionic cellulose polymer that is available in both ultra high viscosity (HV) grade as well as a medium-viscosity (LV) grade in all of our locations throughout the world.

Advantages

- Works well at any salinity
- Control fluid loss
- Promotes fragile gels
- Inhibits hydrateable, swelling shales
- Increases resistance of clay muds to contamination
- Retards drilled solids build-up by inhibiting cutting disintegration
- Produces thin, slick, tough filter cake
- Non-fermenting, no preservative needed
- Environmentally compatible
- Reduces friction and frequency of differential sticking
- Increases carrying capacity
- Good thermal stability to $\geq 300^{\circ}\text{F}$

Drillpac[®] HV and Drillpac[®] LV Polymers

Application	Material Needed
Fluid-loss control	0.1 to 3.0 ppb (0.3 to 9.0 kg/m ³)
Inhibition/encapsulation	0.75 to 3.0 ppb (2 to 9.0 kg/m ³)
Improved filter cake	0.5 ppb (1.5 to kg/m ³)
Improved and Stabilized Rheology	0.5 to 1.0 ppb (2.0 to 3 kg/m ³)
Reduce stuck pipe frequency	0.5 to 0.75 ppb (1.5 to 2.0 kg/m ³)
Improved hole cleaning	0.5 to 3.0 ppb (1.5 to 9.0 kg/m ³)
Semi-non-dispersed muds	0.5 to 2.0 ppb (1.5 to 6.0 kg/m ³)
Work over / completion fluids	0.75 to 2.0 ppb (2 to 6.0 kg/m ³)

Cost

The purity and assured high quality of these products are strong contributors to lower overall mud costs and total well costs.

Mud Types:

Water-based drilling and drill-in fluids, work over fluids and completion fluids of any salinity. More efficient performance with calcium below 500 ppm. Slightly more polymer needed at higher calcium levels.

Mixing Requirements

Drillpac[®] HV Polymer and Drillpac[®] LV Polymer: Mix slowly through conventional jet hopper.

Handling

For specific instruction on handling refer to the MSDS.

Packaging

Drillpac[®] Polymers: 50-pound, multiwall paper sacks

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Drilling Specialties Company does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.