



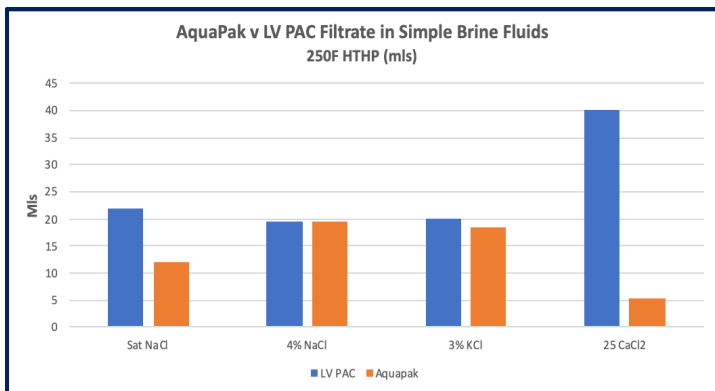
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# AquaPak

AquaPak is a starch based fluid loss control additive that completely replaces LV PAC in water based drilling fluids at a more economical price point than PAC. It passes all performance parameters for the API specification for LV PAC. It performs as well as or better than LV PAC in brines used in clear fluid for drill-in or clay based systems for drilling such as NaCl, CaCl<sub>2</sub> and KCl. AquaPak also provides superior biological stability compared with other drilling starches or PACs.

## Filtrate Performance

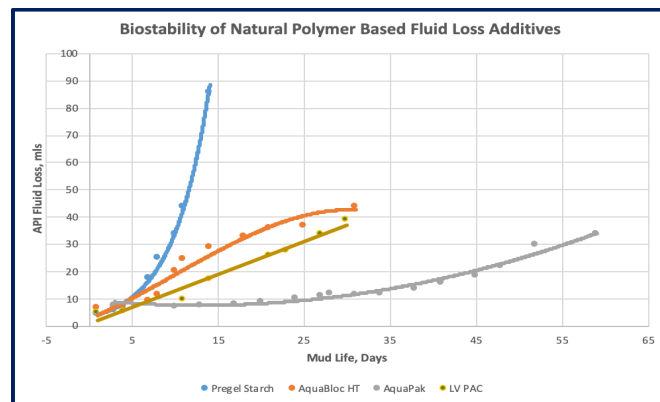
AquaPak delivers equivalent or better fluid loss than LV PAC without the high shear viscosity penalty of PACs. This allows the driller to use more of the additive if additional fluid loss is desired without exceeding the functional viscosity of the fluid.



Although effective at lower temperatures, it is recommended that AquaPak be used at circulating temperatures of 200F-275F.

## Low Shear Viscosity (Hole Cleaning)

When used with a common rheology modifier such as xanthan, AquaPak produces equivalent or better 6 rpm viscosity than LV PAC.



## Biological Stability

Unlike typical starches, AquaPak is four times more biologically stable than common drilling starches and twice as stable as LV PAC; but is still fully biodegradable. Once the drilling is complete, AquaPak is easily cleaned up with common breaker systems.

The bottom line is economy and efficiency. AquaPak provides a more economical but equivalent or superior functional alternative to LV PAC for filtrate control in water based fluids.

### Characteristics

- Appearance: Off White Powder
- Ionic Character: Anionic
- Moisture: <12%
- pH: 8-11
- Density: 1.2

### Functions

- Filtrate Control
- Low Shear Viscosity

### Environmental

- Superior biostability
- Fully biodegradable

### Packaging and Product Form

- 50 lb paper sacks
- Supersacks
- Private label