

# PAC R PREMIUM

## Filtration Control Agent

### Product Description

PAC R PREMIUM additive is a high-quality PAC polymer, designed to control fluid loss and increase viscosity in water-base drilling fluids. It will require less product concentration and provide superior performance to most other products in their class.

### Typical Physical Properties

Physical appearance	White powder
Specific gravity	1.5 - 1.6
pH (1% solution)	6.5 - 8.0

### Application

PAC R PREMIUM additive controls fluid loss in freshwater, seawater, KCL and saltwater drilling fluid systems. It forms a thin, resilient, low permeability filtercake which minimizes the potential for differential sticking and invasion of filtrate and mud solids into permeable formations.

PAC R PREMIUM fluid loss additive resists bacterial attack, eliminating the need for biocides or preservatives. It develops viscosity to a degree that is dependent on the solids concentration, salinity and make-up water chemistry. It creates an envelope around exposed shales and cuttings to encapsulate them, reducing dispersion and permitting improvement of wellbore integrity.

### Advantages

- Effective in low concentrations for controlling fluid loss and building viscosity
- Encapsulates shale particles to inhibit swelling and dispersion
- Resists attack from bacteria, requiring no preservatives or biocides
- Functions over a wide range of salinity, hardness and pH levels
- Applicable in all water-base fluids, ranging from low-solids, non-dispersed polymer systems to high solid dispersed systems
- Excellent environmentally acceptable
- Compatible with all common mud-treating additives

### Limitations

- High hardness (1,000 mg/L) will require precipitation of the  $\text{Ca}^{++}$  and  $\text{Mg}^{++}$  to improve performance
- Temperature stability limitation of 300°F (149°C); approaching this temperature, a thermal stabilizer, such as PAL PTS additive, will be required

### Recommended Treatment

Effective in low concentrations, with normal fluid-loss treatment ranging from 0.25 to 1.0 lb/bbl (0.71 to 2.85 kg/m<sup>3</sup>).

### Toxicity and Handling

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Material Safety Data Sheet (MSDS).

### Packaging and Storage

PAC R PREMIUM additive is packaged in 50-lb (22.7-kg), multi-wall, paper sacks. Store in a dry location away from sources of heat or ignition, and minimize dust.

Important Note: These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and method of use of our product are beyond our control. We recommend that the prospective user determine the suitability of our material and suggestions before adopting them on a commercial scale.