

PAC R

Filtration Control Agent

Product Description

PAC R additive is a regular tech-grade quality PAC, useful in controlling filtration and increasing rheology in all types of water, but is particularly effective in saltwater brines. PAC R additive will aid in dispersion control by attaching and encapsulating the drill solids. It may be used at all density ranges, and functions effectively in dispersed and non-dispersed systems.

Typical Physical Properties

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

Application

PAC R additive controls fluid loss in freshwater, seawater, KCL and saltwater drilling fluid systems. It aids in the formation of a tough, thin filtercake to minimize the potential for differential sticking. It is useful in viscosifying all types of water to create sufficient yield point to assist in the carrying capacity of solids for improved hole-cleaning.

It creates an envelope around exposed shales and cuttings to encapsulate them, reducing dispersion and permitting improvement of wellbore integrity. The encapsulation protects the shale from exposure to water.

Advantages

- Effective in controlling fluid loss
- Resists attack from bacteria, requiring no preservatives or bactericide
- Environmentally acceptable
- Depending on water quality, provides viscosity
- Functions at all ranges of pH levels in both dispersed and non-dispersed fluids

Limitations

- Contains salt as a by-product of processing
- High hardness (1,000 mg/L) will require precipitation of the Ca^{++} and Mg^{++} to improve performance
- Temperature stability limitation of 250°F (120°C); approaching this temperature, a thermal stabilizer, such as PTS additive, will be required

Recommended Treatment

Recommended concentrations for building viscosity range from 1.0 to 4.0 lb/bbl (3.0 to 12.0 kg/m³). Water hardness and salt level will affect the amount of PAC R additive required.

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 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.