

POLYPAC R

POLYPAC* R polyanionic cellulose is a high-quality, water-soluble polymer designed to control fluid loss and increase viscosity in water-base muds.

Typical Physical Properties

Physical appearance	White, free-flowing powder
Specific gravity	1.5-1.6
pH (1% Solution)	6.5-8.0

Applications

POLYPAC R additive controls fluid loss in freshwater, seawater, KCl and salt muds. The polymer forms a thin, resilient, low-permeability filter cake that minimizes the potential for differential sticking and the invasion of filtrate and mud solids into permeable formations.

POLYPAC R fluid-loss-control additive resists bacterial attack, eliminating the need for biocides or preservatives. It is effective in low concentrations, with the normal fluid-loss treatment ranging from 0.25 to 1 lb/bbl (0.71 to 2.85 kg/m³). POLYPAC R polymer also develops viscosity to a degree that is dependent on the solids concentration, salinity and makeup water chemistry.

POLYPAC R anionic polymer attaches to and encapsulates exposed shales and drill cuttings. This protective polymer “envelope” inhibits the dispersion of shale cuttings and restricts fluid interactions with exposed shales.

Advantages

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

Limitations

- Circulating temperature stability of approximately 300° F (149° C)
- Effective in systems with total hardness <1,000 mg/L (as calcium), but can be precipitated in the combined presence of high hardness and high pH

Toxicity and Handling

Bioassay information is available upon request.

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

Packaging and Storage

POLYPAC R anionic polymer is packaged in 50-lb (22.7-kg) and 55-lb (25-kg), heavy-duty, multi-wall, waterproof sacks.

Store in a dry, well-ventilated area away from incompatibles or sources of heat or ignition.



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