



Technical Datasheet

PAC HV

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Description

PAC HV is a high-quality grade of poly-anionic cellulose polymer which is widely used to minimize filtration and increase rheological properties in water-based drilling fluid. It is stable up to 300°F and is applicable in different types of water such as fresh to high-saline ones. PAC HV is optimized for drilling fluids needing low filtration properties as well as high rheological characteristics.

Application

Main function of PAC HV is to minimize filtration and water loss in water based mud in low to high temperatures. The second function of PAC HV is increasing rheological properties such as yield point for hole cleaning and suspension of weighting agents. PAC HV is an excellent choice for areas which are sensitive for water invasion such as shale layers. Based on required filtration and rheological properties and type of drilling fluid, optimum concentration of PAC HV can be selected.

Advantages

- Easy to mix through hopper
- Compatible with most types of regular water-based muds
- Stable up to 250° F
- Provide excellent filtration control
- Improve rheological properties
- Environmentally acceptable
- Effective in wide range of pH

Limitations

- May be not suitable for temperatures above 250°F

Treatment

Based on required filtration and rheological properties and type of drilling fluid, optimum concentration of PAC HV can be selected which ranges from 0.5 to 3 lb/bbl (1.4-8.4 Kg/M³). It should be added slowly through rig hoppers. Treatments must be performed on an incremental basis to prevent any overtreatment and excessive increment of viscosity or gel strength.

Typical Properties

APPEARANCE	Off-white powder
Degree of substitution	0.9-1
pH (1% Solution)	6-8
Moisture	Maximum 10%
Fluid Loss	Maximum 23 cc/30min
Apparent viscosity	Minimum 50 cP
Bulk Density	650-850 g/l
Solubility in water	Soluble

Packaging

PAC HV is available in 25 KG SXS.