

PAC HV

Filtration Control Agent

Description

PAC-HV, a high molecular weight polyanionic cellulose, provides filtration control and supplementary viscosity in most water-based drilling fluids.

Applications/functions

- Control filtration rates
- Retard shale swelling and disintegration
- Provide supplementary viscosity in fresh water, sea water, and brine-based fluids

Advantages

- Effective in fresh water, salt water, and brine-based fluids.

Example

PAC-HV Application in 4% NaCl Solution Containing 15 lb / bbl Hydrated Bentonite.

| | | | | |
|---|------|-----|-----|-----|
| PAC-HV Concentration, lbs | 0 | 0,5 | 1,0 | 2,0 |
| Apparent viscosity, cP | 9,5 | 7,5 | 15 | 44 |
| Plastic viscosity, cP | 3 | 7 | 12 | 27 |
| Limiting dynamic stress shear, lb./100 sq. foot | 13 | 1 | 6 | 34 |
| Ultimate static shear stress after 10 sec. rest, lb./100 sq. foot | 6 | 0 | 1 | 9 |
| Ultimate static shear stress after 10 min. rest, lb./100 sq. foot | 6 | 2 | 4 | 38 |
| pH | 7,4 | 7,6 | 7,8 | 7,6 |
| API Fluid loss, ml/30 s | 41,0 | 9,8 | 6,3 | 4,0 |

- Effective in small concentrations for viscosity and filtration control
- Stable at temperatures up to 300°F (149°C)
- Effective in moderate to high pH systems
- Nontoxic
- Does not require a bactericide

Typical properties

- Appearance White or tan powder
- Bulk density, lb/ft³ 40 - 55
- pH, (1% aqueous solution) 8

Recommended treatment

Add 1.43-5.71 kg/m³ of PAC-HV slowly through the mud hopper.

Package

PAC-HV is packaged in 25 kg sacks.