Celeritas Chemicals
"Delivering the right chemistry!"

PAC-HV Specification

PAC-HV is high-viscosity Polyanionic cellulose (PAC) offered by our company, to be used as a fluid-loss control additive for drilling mud. PAC-HV has medium to high molecular weight which can also increase viscosity of the drilling mud.

PRODUCT DESCRIPTION

Free-flowing, off-white powder.

CHEMICAL NATURE

Polyanionic cellulose (PAC)

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white, free-flowing powder Solubility in Water: Soluble
Particle Size:99% min. through 30 mesh screen Moisture: ≤ 9%
pH (1% solution): 6.5 – 9.0

PAC-HV TECHNICAL SPECIFICATION (as Per Chevron spec and test method)

Test item	In Seawater/KCl Mud System: Fann 35A dial reading at 600rpm	In Seawater/KCl Mud System: API fluid loss, ml
Specs	≥12	≤26

Performance Evaluation of PAC-HV in Seawater/KCl Mud System (as per Chevron method)

Basic Salt-Water formulation: 3500 ml of deionized water, 157.5 g KCl, and 105.0 g Sea Salt.

Basic gel slurry: 3500 ml of deionized water, 350.0 g of API Reference Bentonite. Mixture aged at room temperature for minimum of 16 hours.

Testing fluid formulation procedure: Combine 259.5 g of the basic salt-water formulation with 106.0 g of the basic gel slurry and shear on multimixer for 5 minutes. Add 10.5 g of Rev Dust, 0.75 ml of 5.0 N NaOH, and shear on multimixer for 5 minutes. Add 0.75 g of **PAC-HV** and shear for 20 minutes. Seal container and age statically at room temperature for minimum of 16 hours.

Fluid evaluation procedure: Shear fluid sample on the multimixer for 5 minutes. Record PV, YP, pH, gel strength, and API filtrate.

P.O Box 92221, Southlake, TX 76092. USA Phone: 817 421 0423, Fax: 817 887 3737
www.celeritaschemicals.com

Celeritas Chemicals
"Delivering the right chemistry!"

PAC-LV Specification

PAC-LV is low-viscosity Polyanionic cellulose (PAC) offered by our company, used as a fluid-loss control additive for drilling mud. **PAC-LV** has low molecular weight which is essentially not a viscosifier.

PRODUCT DESCRIPTION

Free flowing, off-white powder.

CHEMICAL NATURE

Polyanionic cellulose (PAC).

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: off-white, free-flowing powder
Particle size: 99% min. through 30 mesh screen
pH (1% solution): 6.5 – 9.0
Solubility in Water: Soluble
Moisture: ≤ 9%

PAC-LV TECHNICAL SPECIFICATION (as per Chevron spec and test method)

Test item	In Seawater/KCl Mud System: Fann 35A dial reading at 600rpm	In Seawater/KCl Mud System: API fluid loss, ml
Specs	≤14	≤24.5

Performance Evaluation of PAC-LV in Seawater/KCl Mud System (Chevron Method)

Basic Salt-Water formulation: 3500 ml of deionized water, 157.5 g of KCl, and 105.0 g of Sea Salt.

Basic gel slurry: 3500 ml of deionized water, 350.0 g of API Reference Bentonite. Mixture aged at room temperature for minimum of 16 hours.

Testing fluid formulation procedure: Combine 259.5 g of the basic salt-water formulation with 106.0 g of the basic gel slurry and shear on multimixer for 5 minutes. Add 10.5 g of Rev Dust, 0.75 ml 5.0 N NaOH, and shear on multimixer for 5 minutes. Add 1.0g **PAC-LV** and shear for 20 minutes. Seal container and age statically at room temperature for minimum of 16 hours.

Fluid evaluation procedure: Shear fluid sample on multimixer for 5 minutes. Record PV, YP, pH, gel strength, and API filtrate.

P.O Box 92221, Southlake, TX 76092. USA Phone: 817 421 0423, Fax: 817 887 3737
www.celeritaschemicals.com

Celeritas Chemicals
"Delivering the right chemistry!"

Tech Grade PAC-L Specification

Tech Grade PAC L is technical-grade PAC L, which is employed in the drilling mud to control fluid loss but add little viscosity to the mud system.
Tech Grade PAC L that our company is offering is white or off-white, free-flowing powder without visual impurity and foreign matter. Tech Grade PAC L meets the following specifications:

Tech Grade PAC L	
Appearance	Creamy color, free-flowing powder
Purity	70% min.
D.S.	Min. 1.0
Moisture Content	9% max.

P.O Box 92221, Southlake, TX 76092. USA Phone: 817 421 0423, Fax: 817 887 3737
www.celeritaschemicals.com

Celeritas Chemicals
"Delivering the right chemistry!"

Tech Grade PAC-R Specification

Tech Grade PAC R is technical-grade PAC R, which is employed in the drilling mud to control fluid loss and increase viscosity of the mud system.
Tech Grade PAC R that our company is offering is white or off-white, free-flowing powder without visual impurity and foreign matter. Tech Grade PAC R meets the following specifications:

Tech Grade PAC L	
Appearance	Creamy color, free-flowing powder
Purity	75% min.
D.S.	Min. 1.0
Moisture Content	9% max.

Product Codes:

PACHV01
PACLV03
PACTL05
PACTR07

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purpose. In no event shall this product be liable for any claims, loses or damages of any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if this product has been advised of the possibility of such damages.

P.O Box 92221, Southlake, TX 76092. USA Phone: 817 421 0423, Fax: 817 887 3737
www.celeritaschemicals.com