



BAROID PAC™-L

Modified Natural Cellulosic Polymer



Description PAC™-L modified natural cellulosic polymer provides filtration control in most water-based drilling fluids without substantially increasing viscosity. PAC-L polymer when added to a QUIK-GEL® or BORE-GEL® slurry, yields a drilling mud system suitable for drilling in sandy formation. PAC-L polymer can be added to vegetable or mineral oil to provide an oil-based fluid suspension, which can be poured into drill string directly.

- Applications/Functions**
- Can provide filtration control in fresh or brackish water-based drilling fluids
 - Can reduce fluid loss without significantly increasing fluid viscosity
 - Can encapsulate shale to prevent swelling and disintegration
 - Can promote borehole stability in water sensitive formations
 - Can minimize rod chatter, rotational torque and circulating pressure
 - Can improve hole cleaning and core recovery

- Advantages**
- Effective in fresh water, salt water and brackish water-based drilling fluids
 - Effective in small quantities for filtration control
 - Non-fermenting
 - Compatible with other Baroid drilling fluid additives
 - Resistant to harsh environments and contaminants

Typical Properties

• Appearance	White, free-flowing powder
• pH (1% aqueous solution)	7.75

- Recommended Treatment**
- Using a Venturi mixer, or into vortex of a high-speed stirrer, add slowly and uniformly to the entire circulating system.

Recommended Treatment

Approximate Amounts of PAC-L Polymer Added to Water-based Fluids		
Desired Condition/Result		
<i>Added to fresh or salt water</i>	lb/100 gal	kg/m³
• To help stabilize water sensitive formation	3 – 7	4 – 8.5
• To help reduce torque and lower circulating pressure	0.5 - 2	0.6 – 2.4
<i>Added to QUIK-GEL® slurry (25 lb/100 gallons) or (30 kilograms per m³)</i>	lb/100 gal	kg/m³
• To help reduce filtration rate and improve borehole stability	0.5 - 2.0	0.6 – 2.4
<i>Added to BORE-GEL® slurry (35 lb/100 gallons) or (42 kilograms per m³)</i>	lb/100 gal	kg/m³
• To help reduce filtration rate and improve borehole stability	0.5 – 2.0	0.6 – 2.4

Note:

Very salty waters may require twice as much PAC-L polymer as fresh water. Preferably, PAC-L polymer should be mixed in fresh water before it is added to very salty water.

Packaging

PAC-L polymer is packaged in 50-lb (22.7 kg) bags.