

# PAC<sup>™</sup>-L

#### Modified Natural Cellulosic Polymer

Description	PAC <sup>TM</sup> -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 <sup>®</sup> or BORE-GEL <sup>®</sup> 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	<ul> <li>Can provide filtration control in fresh or brackish water-based drilling fluids</li> <li>Can reduce fluid loss without significantly increasing fluid viscosity</li> <li>Can encapsulate shale to prevent swelling and disintegration</li> <li>Can promote borehole stability in water sensitive formations</li> <li>Can minimize rod chatter, rotational torque and circulating pressure</li> <li>Can improve hole cleaning and core recovery</li> </ul>		
Advantages	<ul> <li>Effective in fresh water, salt water and brackish water-based drilling fluids</li> <li>Effective in small quantities for filtration control</li> <li>Non-fermenting</li> <li>Compatible with other Baroid drilling fluid additives</li> <li>Resistant to harsh environments and contaminants</li> </ul>		
Typical Properties	<ul> <li>Appearance White, free-flowing powder</li> <li>pH (1% aqueous solution) 7.75</li> </ul>		
Recommended Treatment	<ul> <li>Using a Venturi mixer, or into vortex of a high-speed stirrer, add slowly and uniformly to the entire circulating system.</li> </ul>		

Because the conditions of use of this product are beyond the seller's control, the product is sold without warranty either express or implied and upon condition that purchaser make its own test to determine the suitability for purchaser's application. Purchaser assumes all risk of use and handling of this product. This product will be replaced if defective in manufacture or packaging or if damaged. Except for such replacement, seller is not liable for any damages caused by this product or its use. The statements and recommendations made herein are believed to be accurate. No guarantee of their accuracy is made, however.

### Recommended Treatment

## Approximate Amounts of PAC-L Polymer Added to Water-based Fluids

Desired Condition/Result			
Added to fresh or salt water	lb/100 gal	kg/m <sup>3</sup>	
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	
Added to QUIK-GEL <sup>®</sup> slurry (25 lb/100 gallons) or (30 kilograms per m <sup>3</sup> )	lb/100 gal	kg/m <sup>3</sup>	
To help reduce filtration rate and improve borehole stability	0.5 - 2.0	0.6 – 2.4	
Added to BORE-GEL <sup>®</sup> slurry (35 lb/100 gallons) or (42 kilograms per m <sup>3</sup> )	lb/100 gal	kg/m <sup>3</sup>	
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.

Availability PAC-L polymer can be purchased through any Baroid Industrial Drilling Products Retailer. To locate the Baroid IDP retailer nearest you contact the Customer Service Department in Houston or your area IDP Sales Representative.

Baroid Industrial Drilling Products Product Service Line, Halliburton					
3000 N. Sam Houston Pkwy. E. Houston, TX 77032					
<b>Customer Service</b>	(800) 735-6075 Toll Free	(281) 871-4612			
<b>Technical Service</b>	(877) 379-7412 Toll Free	(281) 871-4613			