

## Technical Data Sheet

### Polyanionic Cellulose Low-Viscosity Grade

### PAC-LV

#### Function:

Filtration Control Aid, Highly concentrated powdered polymer for Solids-Laden Water-Based Drilling Fluids

#### Features and Benefits:

- Reduces filtration rate
- Aids carrying capacity
- Combats clay swelling and dispersion
- Powerful lubricating properties
- Effective in fresh and salty waters
- Non fermenting
- Promotes fragile gels - allows effective fines dropout on surface
- Environmentally friendly
- Easy to mix using simple equipment
- Produces thin slick wall cake

#### Summary:

Our brand PAC-LV polymer (polyanionic cellulose) effectively reduces the API filtration rate of many water-based drilling fluids, especially solids-laden fluids, without causing significant increases in viscosity or gel strengths. In addition, small amounts of our PAC-LV polymer can reduce and stabilize the rheology of flocculated and/or solids laden fluids.

#### Description:

Our PAC-LV polymer is a premium-quality, low-molecular-weight, low-viscosity-type polymer designed specifically for use in solids-laden, water-based drilling fluids (see performance table below).

#### How to Use:

Allow .5 to 3 ppb (1.4 to 8.4 kg/m<sup>3</sup>) depending on water quality and mud viscosity and other properties required. For low solids fresh water drilling, 0.5 to 1 ppb (1.4 to 2.8 kg/m<sup>3</sup>) is recommended. As a fluid loss control agent and viscosifier in salt and saturated salt water systems, 1.0 to 2.0 ppb (2.8 to 5.6 kg/m<sup>3</sup>) is suggested.

<i>Functions</i>	<i>Applications</i>
<p><b>Filtration rate control</b> Reduces API Filtration Rate:</p> <p>Improves Filter Cake Quality Thins and Toughens Wall Cake Increases Filter Cake Lubricity</p> <p><b>Viscosity Control</b> Stabilizes rheology of fluids containing pre-hydrated clays and inhibitive salts, such as:</p> <p>Thins and deflocculates solids-laden systems without dispersing clays</p>	<ul style="list-style-type: none"> <li>• Solids-laden Fluids</li> <li>• Dispersed and Non-dispersed Muds</li> <li>• Weighted and Un-weighted Fluids</li> <li>• Freshwater or Saltwater Systems</li> <li>• Flocculated and Contaminated Muds</li> </ul> <ul style="list-style-type: none"> <li>• KCl systems</li> <li>• Seawater Systems</li> <li>• Saturated Saltwater Fluids</li> <li>• Gyp Muds</li> </ul>

**Product Safety and Environmental Information:**

- Read and understand the Material Safety Data Sheet for PAC-LV polymer before using this product.
- Practice good industrial hygiene when using this product.
- Surfaces subject to spills and dusting can become slippery when wet; exercise caution and sweep up spills promptly.
- Our PAC-LV polymer is essentially non-toxic and has minimal impact on the toxicity of fluid systems.

**Packaging Format (Other formats on request)**

Powder: 25 kg sacks

**Shipping and Handling:**

Our PAC-LV polymer is packaged in clearly marked multi-wall craft bags, palletized and stretch-wrapped for handling convenience. It is shipped from our plant in China.