

GUAR GUM HP 4501P

INCREASE VISCOSITY IN WATER-BASED DRILLING FLUIDS

Guar Gum HP 4501P is used as a depressant where there is froth flotation and is specially blended for easy mixing. Best suited for potash flotation, **Guar Gum HP 4501P** depresses clays and slimes providing viscosity in fresh or brine water.

This viscosity degrades quite rapidly at temperatures in excess of 65°C. **Guar Gum HP 4501P** is subject to attack by microorganisms unless protected by high pH, high salinity or a bactericide.

Hydrated **Guar Gum** can be cross-linked with a borate ion to produce an extremely viscous suspension at a relatively low gum concentration. A pH of 9.0-10.0 is required to produce the cross-link, which can be reversed by lowering the pH to neutral (7.0). The ratio of **Guar Gum** to Tetra borate should be approximately 5:1.

PHYSICAL PROPERTIES:

Appearance: Odourless white powder

Specific Gravity: ↓1.2

Viscosity: 3200-4200cp

Particle size: ↓150 microns

CHEMICAL PROPERTIES:

Chemical Family: Galactomannan

Solubility in water: Excellent

Microtox: N/A

pH: 5-6.5

MIXING & HANDLING

Wear a mask and goggles while mixing **Guar Gum HP 4501P** to prevent dust inhalation and contact with eyes. **Guar Gum HP 4501P** becomes very slippery when it comes in contact with water, therefore spills should be cleaned up with an absorbent material instead of water.

WHMIS: Not controlled

TDG: Not regulated

Packaging: 25kg bag / 1000kg totes

