



## Product Information

### Encapsorfloc

#### GENERAL DESCRIPTION

Encapsorfloc is a high molecular weight, medium anionic charge, acrylamide-based copolymer. It is supplied as a low viscosity emulsion with excellent freeze-thaw stability. It has been specially formulated to remain fluid at temperatures as low as -30°C. The low pour point formulation does not affect the performance of the product in any way.

#### FEATURES AND BENEFITS

Encapsorfloc is a very versatile polymer, which can be used for oil, gas, water and mineral drilling. It can be added to fresh, KCL or seawater based drilling fluid systems.

Primary functions are:

*Shale Inhibitor* - can be used alone or in conjunction with KCL to stabilize active shale's by decreasing the shale's tendency to absorb water, swell and slough-off. As an additional benefit, fluid loss is often reduced when using this product. The recommended dosage rate is 0.05% - 0.50% concentration.

*Viscosifier* - The addition of 0.05% - 0.50% concentration is a cost effective way to generate viscosity in fresh or low salinity drilling fluids. Its shear thinning capacity assures maximum power at the bit under high shear while retaining excellent carrying capacity under low shear conditions.

*Flow Line Flocculant* - excellent product for clear water or low solids drilling fluids. The addition of a 0.5% solution into the flow line or just prior to any mechanical equipment will greatly enhance the removal separation of drill solids.

*Friction Reducer* - the addition into drilling fluid will help reduce turbulent flow, friction and power losses at points of high shear. Lowering turbulent flow also helps reduce erosion and washouts of fragile geologic structures.

*Foam Stabilizer* - assists in foam drilling by creating very stable foam, thereby increasing foam life. This results in enhanced cuttings removal and reduced water requirements. The product is compatible with most commonly used foamers.

#### TYPICAL PHYSICAL PROPERTIES

Appearance	Opaque Liquid
Ionic Character	Anionic
Specific Gravity	1.057
Viscosity, 25°C	600 - 1000 cps
pH of 1.0% Soln. @ 25°C	6.5 - 7.5
Flash Point	70°C

#### HANDLING

Encapsorfloc is best stored inside at temperatures ranging from 5-35°C and has a shelf life of approximately 6 months. If frozen, the product should be allowed to thaw completely and mixed prior to use.

It exhibits a low order of toxicity. However, precautions should be taken to avoid inhalation, ingestion or contact with skin or eyes. Polymer spills are extremely slippery and therefore hazardous. For additional information, see the relevant MSDS.

#### AVAILABILITY

Encapsorfloc is supplied in 20L plastic pails from HiTech Fluid Systems Ltd.