



BioPol™

VISCOSIFIER

Overview

A complex, high molecular weight biopolymer, BioPol viscosifier is used as a viscosifier and suspending agent in PayZone® drill-in fluids, clear brine fluids, spacers, and fluid loss control pills.

BioPol viscosifier should be mixed slowly through the rig hopper (taking approximately 20 to 30 minutes per 50 pound bag) for optimum dispersion and hydration. Increasing the fluid shear rate during mixing will enhance the hydration rate and optimize rheological performance. High calcium and zinc brine systems may retard or prevent the hydration rate of the product.

Features and Benefits

- Highly resistant to shear degradation.
- Elevates the yield point and shear rate viscosity, enhancing hole cleaning and gel strength development for improved suspension
- Provides stable rheology to temperatures in excess of 250°F.
- Easily dispersed and mixed in brines.
- Enhances the thixotropic characteristics of most brine based systems.

Physical Properties

Appearance	Light beige powder
pH	6 - 8
Specific gravity	0.8 @ 25° (77°F)
Water Solubility	Soluble

Packaging Information

50 pound moisture resistant bags
25 kilogram moisture resistant bags

Recommended Treatment

When used as the primary viscosifier, typical treatments with BioPol viscosifier are in the range of 0.5 to 2.0 lb/bbl. When used as a supplementary viscosifier, treatments in the range of 0.25 to 0.6 lb/bbl may be expected. Consult a TETRA representative for specific recommendations.

Safety and Handling

Avoid skin and eye contact, inhalation or ingestion. For skin contact, wash with soap and large quantities of water. For eye contact, flush with large quantities of water. Use properly designed respirator if adequate ventilation is not available. Refer to the Safety Data Sheet for specific details.

Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Seller assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. Further, nothing contained herein shall be taken as a recommendation to manufacture or use any of the herein described materials or processes in violation of existing or future patents.