

Fluid Loss Control Additive KDF007

1. Introduction

Serious fluid loss into formation rocks leads to differential sticking, formation damage and reduces well productivity. Fluid loss control additives are generally used in drilling fluid systems to minimize the fluid loss while drilling oil or gas wells.

KDF007 is a low-viscosity polymeric fluid loss control additive used in most water-based drilling fluids, including fresh water, seawater and brine-based drilling fluids. It has minimal effect in drilling fluid rheology. KDF007 is non-toxic and also controls dispersion of active shales by encapsulation mechanism.

2. Physical Properties and Hazards

Additives	Form	S.G.	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KDF007	Off-white Powder	1.75-1.95	Soluble	-	Eyes, Inhalation	Dust	N/A

3. Chemical Properties and Application

KDF007 is a modified natural polymer with small molecular weight, therefore it reduces fluid loss of the drilling fluids but has almost no effect on fluid rheological properties. The KDF007 aids in the formation of a tough and thin filter cake to minimize the potential risks of differential sticking and formation damage. KDF007 is also environmentally friendly due to its natural polymeric nature.

Chemical Nature: A modified low-viscosity natural polymer.
 Solubility: Readily soluble in fresh water or seawater.
 Temperature Stability: Stable up to 300°F in laboratory.

4. Treatment

Concentration ranges from 0.5ppb to 3ppb are typically required. Pilot testing is advised to determine the necessary treatment to achieve the desired results and observe the changes in mud properties.

5. Packaging

KDF007 is supplied in 25 KG multiple-lined paper bags.
 Keep it away from extreme conditions such as places near flames or direct sunlight.