

Fluid Loss Control Additive KDF037

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.

KDF037 is a cost-effective fluid loss control additive especially at high temperature applications. The drilling fluids containing KDF037 is able to form thin and tough filter-cake to improve the wellbore stability. KDF037 is also an effective dispersant used to adjust the rheological properties of the drilling fluids especially at high density and high temperature conditions.

2. Physical Properties and Hazards

Additive	Form	S.G.	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KDF037	Black Powder	1.60-1.80	Soluble	-	Eyes, Inhalation	Dust	-

3. Chemical Properties and Application

KDF037 is a sulphonated organic polymer containing groups that improve the drilling fluid stability at high temperature and high salt concentration conditions. The sulphonate and hydroxyl groups on the polymer backbone help to disperse the drill solids therefore it is also a good thinner for high-solids and high-weight drilling fluids.

KDF037 presents synergistic effect when it is used together with KDF027 and KDF047 especially at high temperature conditions.

Chemical Nature: A Sulphonated Natural Polymer
 Solubility: Readily soluble in fresh water, seawater and brines
 Temperature Stability: Stable up to at least 200°C (390°F)

4. Treatment

Concentration in the range from 3 to 6 lbm/bbl (8.6 to 17.2 kg/m³). KDF037 should be mixed through a hopper at a rate of 10 to 15 min per sack.

5. Packaging

KDF037 is supplied in 25 KG multi-lining paper sacks.

Keep it away from extreme conditions such as places near flames or direct sunlight.