

Lubricant KDF004

1. Introduction

Drilling lubricants are essential for minimizing friction, dissipating heat, and preventing premature wear or failure of drilling equipment. They also help remove debris and reduce torque and drag and prevent sticking or bit balling in complex drilling operations.

Aromatic hydrocarbon KDF004 is a colorless, odorless liquid product which serves as a mainstream lubricant for oil and gas drilling operations. It is extensively used for optimizing water-based and oil-based drilling fluids, acting as a critical drilling additive to improve drilling efficiency and minimize drilling risks.

2. Physical Properties and Hazards

Additives	Form	S.G.	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KDF004	Clear Viscous Liquid	0.80-0.90	Insoluble	>120	Inhalation, Swallow	-	-

3. Chemical Properties and Application

Featuring strong chemical inertness and excellent lubricity, KDF004 serves as an important lubricant for oil and gas drilling operations.

KDF004 is compatible with most additives in both water-based and oil-based drilling fluids because of its chemical nature. In addition to working as lubricant, KDF004 can also be used as base oil for most oil-based drilling fluids. Synergistic effects are sometimes observed between KDF004 and other additives to improve drilling efficiency and minimize operational risks.

Chemical nature: Aromatic hydrocarbon
 Solubility: Insoluble in water
 Temperature Stability: Use up to 500°F depend on fluid formulations

4. Treatment

0.5-5.0 vol.% is good enough to work as lubricant. A typical loading range of 10-30 vol.% is expected for base in drilling fluid formulations.

5. Pckaging

KDF004 is supplied in 55 GAL drum.

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