

SurFrac Breaker KHF017

1. Introduction

Proppant-pack or matrix permeability can be severely damaged by gelling agents in fracturing fluids. The amount of damage increases as gel concentration increases. Breakers are used to reduce the viscosity of the fracturing fluid by breaking the gels that is concentrated in the proppant pack.

KHF017 is observed to be effective in breaking viscoelastic surfactant based fracturing fluids. It is also able to change the wettability and surface tension between the fluids and matrix rock, leading to faster and cleaner flow back of the treatment fluids.

2. Physical Properties and Hazards

Additive	Form	Specific Gravity	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KHF017	Clear Liquid	0.90-0.95	Soluble	66	Eyes, Skin	Fire	5.5-6.5

3. Chemical Properties and Application

KHF017 is a multi-functional solvent which is very effective in facilitating fluid flow, breaking emulsions, and preventing water blocks. It can be used for most applicable stimulation fluid systems at various well conditions. The unique chemical property of KHF017 makes it effective in breaking the three-dimensional gel structure formed by viscoelastic surfactant. Therefore, it can be used as breaker in SurFrac fracturing fluids.

KHF017 is compatible with most additives in SurFrac fluid systems, which can be used up to BHST 300°F.

4. Treatment

5-10% volume is typically enough for breaking SurFrac fluids and most cleanup treatment. 10% volume is considered the optimum concentration in most fluid designs.

5. Packaging

KHF017 is supplied in 55 gallons steel drums.

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