

Gelling Agent KHF071

1. Introduction

Slick water fracturing is usually applied in fracturing treatment of unconventional resources such as tight sands and shale reservoirs.

Gelling Agent KHF071 is a gel slurry used in slick water fracturing fluids to provide enough viscosity to reduce friction and carry proppant into fractures as well. It can be used for either continuous or batch mixing. Its hydration rate is faster compared to dry powder, and is easier to meter, disperse and hydrate in field mix-water.

2. Physical Properties and Hazards

Additive	Form	Specific Gravity	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KHF071	Amber Liquid	1.03-1.08	Soluble	>93	Eyes, Nose, Throat	Water Slick	-

3. Chemical Properties and Application

KHF071 is high molecular weight polyacrylamide in slurry form, which makes the polymer hydrate faster and achieve higher viscosity than regular dry powders in order to reduce friction and carry enough proppant. Higher fracture conductivity and less formation damage can also be achieved by utilizing KHF071 in slick water fracturing fluids since less polymer is used and easier flowback is expected.

The gelling agent KHF071 can also be crosslinked by KHF048 if higher viscosity and proppant concentration are involved in slick water fracturing design.

4. Treatment

Concentration range 0.5-3.0 Gal/Mgal KHF071 is enough for most slickwater treatment. For sand-carrying purposes, 3-10 Gal/Mgal KHF071 is highly recommended.

5. Packaging

KHF071 is packed in 265 gallons HDPE IBC totes.

Keep it away from extreme conditions such as places near flames or direct sunlight. Store at temperatures lower than 30°C.