

Borate Crosslinker KHF008

1. Introduction

Crosslinkers are generally introduced to polymer-based fracturing to improve rheological properties of the fracturing fluids. Crosslinker KHF008 is a borate crosslinker used in guar-based or guar derivative based fracturing fluids such as OPTiFrac.

2. Physical Properties and Hazards

Additive	Form	Specific Gravity	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KHF008	White Particles	1.40-1.60	Soluble	171	Moderate, Eyes	Dust	5.0-7.0 (1 wt.%)

3. Chemical Properties and Application

Crosslinker KHF008 is a borate crosslinker used in guar or guar derivative based fracturing fluids. The crosslinking is very slow if KHF008 is added into linear gel (pH 6-8). However, the crosslink is activated by raising the fluid pH value above 8.5 and causes rapid crosslinking to occur in fracturing fluids. The desirable pH range for OPTiFrac is about 10.5-12 for improved temperature stability.

KHF008 can be used to crosslink most guar or guar derivative based fracturing fluids such as OPTiFrac. It is compatible with all additives used in OPTiFrac fracturing fluid systems which are engineered for use up to 325°F.

4. Treatment

Batch mixing KHF008 into the fluid is not recommended. If KHF008 requires batch mixing, it shall be added only after the polymer is fully hydrated. 5-10 lbs/Mgal KHF008 is generally enough to obtain good crosslink property and fluid stability at temperature.

5. Packaging

KHF008 is supplied in plastic-lined bags with net weight of 25 kg/bag.

Keep it away from extreme conditions such as places wet and humid or direct sunlight.