

Clay Stabilizer KHF002

1. Introduction

Clay swelling and dispersion cause reduced permeability and fines migration in reservoir matrix. Clay inhibitors or stabilizers are generally added in treatment fluids to minimize the potential formation damage introduced by the interaction between the active clay minerals and water-based treatment fluids.

The clay stabilizer KHF002 is used to prepare the brine for mixing fracturing fluids. The additive can stabilize the clays in the formation during fracturing operations.

2. Physical Properties and Hazards

Additive	Form	Specific Gravity	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KHF002	White Granules	1.88-2.08	Soluble	773	Eyes, Skin	None	6.0-8.0 (2 wt.%)

3. Chemical Properties and Application

KHF002 is an inorganic salt. The cations presented in KHF002 aqueous solution will inhibit swelling and dispersing of reactive clays in most sandstone formations.

KHF002 can be used for wide temperature ranges because of its inorganic nature.

KHF002 is compatible with most additives used in guar or guar derivative based fracturing fluids.

4. Treatment

1-6 wt.% of KHF002 is generally used to prepare the brine in mixing fracturing fluids.

5. Packaging

KHF002 is supplied in plastic-lined bags with net weight of 25 kg/bag.

It should be stored in shaded areas with good ventilation.