

High Temperature Fluid Loss Control Agent KCM008S

1. Introduction

Selection of fluid loss additives is very important for cementing job design. Most fluid loss control agents affect other properties of cement slurry such as rheology, retardation, and cement set strength. Comprehensive laboratory testing is generally required for selection of fluid loss control agents especially at high temperature. KCM008S is an effective fluid loss control agent for multi-temperature cement slurry design. It has synergistic effect with KCM007 retarder so that both additives are used together to provide superior slurry performance especially for high temperature applications.

2. Physical Properties and Hazards

Additives	Form	S.G.	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KCM008S	White or light-yellow solid particles	1.40-1.60	Soluble	None	None	Water Slick	N/A

3. Chemical Properties and Application

KCM008S is a solid fluid loss control agent that can be used for cement slurry design at wide temperature (90-400-degF) and density ranges (12-20lbs/gal) due to its unique chemical natures. It can be mixed with freshwater, seawater, and saltwater depend on application requirement.

It is approved by testing that KCM008S is not sensitive to cement brands especially for freshwater at low to medium density slurry designs. However, like most polymeric fluid loss control agents, KCM008S generally increases slurry viscosity especially at higher loading. This effect can be reduced by using dispersant. Lower free water and no retarding effect are generally expected for cement slurries containing KCM008S. It is compatible with most cement additives and has synergistic effect with KCM007 retarder for high temperature applications.

4. Treatment

0.5-2% by the weight of cement is generally required for effective fluid loss control depending on temperature, mixing water, and slurry density.

5. Packaging

KCM008S is supplied in plastic-lining bags with net weight of 25kg/sack. It should be stored in shaded areas with good ventilation. Keep it away from high temperature, humidity and direct sunlight.