

High Temperature Fluid Loss Control Agent KCM008L

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.

KCM008L is an effective fluid loss control agent for high-temperature cement slurry design. It has synergistic effect with KCM007L retarder so that both additives are used together to provide superior slurry performance especially for high temperature applications.

2. Physical Properties and Hazards

Additive	Form	S.G.	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KCM008L	Light brown liquid	0.98-1.13	Soluble	None	None	None	6.0-7.0

3. Chemical Properties and Application

KCM008L is a liquid fluid loss control agent that can be used for cement slurry design at wide temperature (100-400°F) and density ranges (12-20lbs/gal) due to its unique chemical natures. It can be mixed with freshwater, seawater, and salt water depend on application requirement.

It is approved by testing that KCM008L is not sensitive to cement brands especially for freshwater low to medium density slurry designs. However, like most polymeric fluid loss control agents, KCM008L generally increases slurry viscosity especially at higher loading. This effect can be reduced by using dispersant.

Lower free water and no retarding effect on are generally expected for cement slurries containing KCM008L. It is compatible with most cement additives and has synergistic effect with KCM007L retarder for high temperature applications.

4. Treatment

0.1-0.8 gal/sack loading of KCM008L is generally required for effective fluid loss control depending on temperature, mixing water, and slurry density.

5. Packaging

This product is supplied in 5 gallons high density polyethylene (HDPE) drums or 55 gallons steel drums. Keep it away from extreme conditions such as places near flames or direct sunlight.