High Temperature Retarder KCM007L

1. Introduction

Hydration time and cement set period are critical for well cementing design. Retarders are generally utilized in cement slurry to control cement thickening time to reduce job risks especially at medium to high temperature applications.

KCM007L provide accurate thickening time for medium to high temperature applications without affecting other properties of the cement slurry.

2. Physical Properties and Hazards

Additive	Form	S.G.	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KCM007L	Clear colorless liquid	0.98-1.13	Soluble	>100	Eyes	None	7.0-8.5

3. Chemical Properties and Application

KCM007L is an inorganic retarding agent used to control cement thickening time but does not affect cement hydration rate. It provides rapid and better compressive strength development for cement slurry even at long thickening time (more than 5 hours). It can be used at wide temperature (190-392°F) and density (14-20lbs/gal) ranges of cement slurries.

It shows good compatibility in most cement slurries and approved to be tolerant to many factors such as mixing water (fresh, sea, and salt), concentration, shear, and temperatures.

Synergistic effect was observed when KCM007L is used together with KCM008L. Fluid loss, thickening time, and additive sensitivity properties are improved by using both KCM007L and KCM008L.

4. Treatment

Exact loading of KCM007L depends on additives used in cement slurry, typically 0.1-2.5 gal/sack KCM007 L is required for temperature range of 180-392°F.

5.Packaging

KCM007L 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.