

Polymeric Retarder KCM057

1. Introduction

It has become a trend for long section cementing in shale gas exploitation, and this kind of well became very popular all over the world, but most common retarders can't work very well for its slow strength development at big temperature differential.

KCM057 provides both long thickening time and fast compressive strength development even when the BHCT is up to 250°F and TT is long to 300min.

2. Physical Properties and Hazards

Additives	Form	S.G.	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KCM057	Light yellow liquid	1.05-1.15	Soluble	>100	Eyes and skin	None	1.0-2.0

3. Chemical Properties and Application

KCM057 is a polymer 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 (65-160°C) and density (10-21lbs/gal) ranges of cement slurries.

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

4. Treatment

Exact loading of KCM057 depend on additives used in cement slurry, typically 0.05-0.40gal/sack KCM057 is required for temperature range of 65-160°C.

5. Packaging

KCM057 is supplied in 5 gallons or 55 gallons high density polyethylene (HDPE) drums. Keep it away from extreme conditions such as places near flames or direct sunlight.