

Medium Temperature Retarder KCM007M

1. Introduction

KCM007M is a medium temperature retarder specifically designed for oil and gas well cementing operations. It is formulated with a combination of organo-phosphonates and carboxylic acids, aiming to precisely control the thickening time of cement slurry under moderate temperature conditions. Within the applicable temperature range, it effectively extends the thickening time of cement slurry, featuring a smooth thickening curve, short transition period, and no "bulging" or "flash setting", thereby ensuring a high safety margin for pumping operations.

2. Physical Properties and Hazards

Additives	Form	S.G.	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KCM007M	Clear Liquid	0.94-1.04	Soluble	>100	Eyes	None	2.0-3.0

3. Chemical Properties and Application

KCM007M is an organic 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 (120-220°F) and density (11-18lbs/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.

4. Treatment

Exact loading of KCM007M depend on additives used in cement slurry, typically 0.01-0.20gal/sack KCM007M is required for temperature range of 120-220°F.

5. Packaging

KCM007M is supplied in 5 gallons high density polyethylene (HDPE) drums or 53 gallons HDPE drums. Keep it away from extreme conditions such as places near flames or direct sunlight.