

Accelerator KCM001

1. Introduction

In shallow and low temperature wells, accelerator is generally required to speed up the cement hydration process and reduce cement set time. Sometimes it is also used to reduce thickening time caused by other cement additives such as fluid loss control agents and dispersants.

2. Physical Properties and Hazards

Additives	Form	S.G.	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KCM001	White Powder	2.15-2.35	Soluble	>200	Eyes	Dust	N/A

3. Chemical Properties and Application

KCM001 is one of the most effective cement accelerators for oil well cement. It can be used for most applicable slurry densities and well temperature although it is generally considered in low temperature or shallow wells.

KCM001 in cement slurry will reduce cement thickening time and promote early strength development. However, care should be taken that KCM001 could over-accelerate and cause cement “flash-set”. In addition, adding KCM001 into mix-water is an exothermic process, which will increase water temperature and affect slurry thickening time.

KCM001 is compatible with most cement additives in cement slurry design although it sometimes has adverse effect on fluid loss property of cement slurry.

4. Treatment

1.0-4.0% BWOC is typically enough for effective acceleration of oil well cement. 2.0%BWOC is considered optimum concentration in cement slurry design.

5. Packaging

KCM001 is supplied in plastic-lining bags with net weight of 25 kg/sack.

It should be stored in shaded areas with good ventilation. Keep it away from high temperature, humidity, and direct sunlight.