

# Dispersant KCM012L

## 1. Introduction

Dispersants can improve mixability of cement slurry and reduce slurry viscosity. This will reduce pumping frictions and lower the critical rate for turbulence flow. Most dispersants achieve above objectives by separating solid particles and suspend them homogeneously in cement slurry. Many dispersing agents in cement slurry are also able to help improve fluid loss properties of the slurry.

## 2. Physical Properties and Hazards

Additives	Form	S.G.	Water Solubility	Flash Point (°C)	Health Hazard	Physical Hazard	pH (1% solution)
KCM012L	Brownish liquid	1.20-1.30	Soluble	>93	Eyes irritation	None	7.5 – 9.0

## 3. Chemical Properties and Application

As described above KCM012L provides cement slurry placement in turbulent flow easily and at minimal pumping pressure due to lower frictions, especially in applications of smaller tubulars and viscous slurry designs. Unique chemical nature of KCM012L will disperse solid particles effectively and stabilize them homogeneously in cement slurries to prevent any settling problems and reduce free water content.

## 4. Treatment

KCM012L is generally used at concentrations from 0.10 to 1.0%BWOC depending on the brands of cement and applications. Caution should be taken to “over-disperse” the slurry at higher KCM012L concentrations. Excess free water and particle settling will be observed if slurries are “over-dispersed”.

## 5. Packaging

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