

Dispersant KCM012S

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 the above objectives by separating solid particles and suspending 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)
KCM012S	Brownish powder	1.10-1.30	Soluble	ND	Eyes irritation	None	7.5-9.0

3. Chemical Properties and Application

As described above KCM012S 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. The unique chemical nature of KCM012S will disperse solid particles effectively and stabilize them homogeneously in cement slurries to prevent any settling problems and reduce free water content.

4. Treatment

KCM012S 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 KCM012S concentrations. Excess free water and particle settling will be observed if slurries are “over-dispersed”.

5. Packaging

KCM012S is supplied in plastic-lining bags with net weight of 25kg/sack. It should be stored in shaded areas with good ventilation. Keep it away from high temperature, humidity, and direct sunlight.