

Low Density Particles KCM030D

1. Introduction

Conventional low density cement slurries are prepared by adding regular light weight extenders such as bentonite and sand to reduce the amount of cement and water required in cement slurry. However, it is hard to design cement slurries if density is very low (less than 1.5 g/cc) since excess free water will be observed and the required compressive strength is hard to achieve.

Low density particles KCM030D is specifically designed in PETCem-LD cement systems in order to prepare low density (1.00- 1.50 g/cc) cement slurries.

2. Physical Properties and Hazards

Additive	Form	S.G.	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KCM030D	White Particulates	0.50-0.70	Insoluble	Not Combustible	Eyes, Inhalation	Dust	N/A

3. Chemical Properties and Application

KCM030D is low density (0.50-0.70 g/cc) inorganic particulates that can be added into cement systems to reduce slurry density. It allows more cement and less water to be added into cement slurries so that low density is achieved while maintaining compressive strength and slurry rheological properties.

KCM030D can be used at any applicable cementing temperature, and up to 18000psi hydrostatic pressure. KCM030D is compatible with most cement additives and can be used in fresh, salt and seawater cement slurries due to its inert nature.

4. Treatment

Job designing tool is available to calculate amount of KCM030D required in cement slurry. Please contact field engineers for advice.

5. Packaging

KCM030D is supplied in 400kg/Jumbo bag.

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