

Solid Extender KCM011S

1. Introduction

The strength of set cement are normally greater than actually needed for supporting casing in a well, for some cases, due to the lower fracture gradient of formations, lightweight slurry are utilized to avoid to exceed the fracture gradient during the cementing operation. An extender is a material added to cement to increase the volume of slurry without excessive water separation and acceptable compressive strength to support the casing in a well and next step of drilling operation.

2. Physical Properties and Hazards

Additive	Form	S.G.	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH (1% solution)
KCM011S	White Solid	2.30-2.50	Soluble	>93	Eyes, Skin, Irritation	Dust	12-13

3. Chemical Properties and Application

In the presence of water, KCM011S react with lime in the cement to form gel structure which allows large quantity of mix water to be added into the cement slurry without excessive slurry separation, lowers the density and increases yield of slurry. KCM011S are normally dry blended with cement and not pre-mixed in the water.

4. Treatment

KCM011S is generally used at concentrations from 0.25 to 3.0% BWOC, these concentrations provide a slurry density range from 1.71 g/cm³ to 1.32 g/cm³ (14.5 lb/gal to 11.5 lb/gal).

5. Packaging

KCM011S 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.