

Early Strength Developing Agent KCM034

1. Introduction

In cementing shallow wells with low-density cement system, adequate compressive strength is required for supporting the casing and next phase operation. KCM034 is used to accelerate the cement hydration process and improve crystal structure of set cement, in order to enhance the early-strength development of the cement and reduce WOC time at low temperature and low density conditions.

2. Physical Properties and Hazards

Additive	Form	S.G.	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KCM034	White Powder	2.65-2.85	Partially Soluble	Not Combustible	Eyes	Dust	N/A

3. Chemical Properties and Application

The KCM034 is an inorganic compound, which not only accelerates the cement hydration process but also improves the early-strength development of cement by the sulfate and silicate ions in KCM034.

When KCM034 is used together with KCM029, it will activate the key ingredient of KCM029 and improve the compressive strength of low-density cement systems.

KCM034 is compatible with most additives used in oilwell cement slurries.

4. Treatment

Typically, 2-20%BWOC is effective for the compressive development of cement system. In low density slurry system design, concentration of 12%BWOC is generally used.

5. Packaging

KCM034 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.