

Anti-settling Agent KCM054

1. Introduction

Stability of cement slurry is crucial for oil and gas well cementing especially for horizontal or deviated wells. Anti-settling agents are generally used to avoid cement instability (free water or sedimentation). KCM054 is developed to avoid instability of cement slurries and extend the ranges of slurry application density and temperature.

2. Physical Properties and Hazards

Additive	Form	S.G.	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KCM054	Light-yellow Powder	2.40-2.60	Soluble	None	None	Water Slick	N/A

3. Chemical Properties and Application

KCM054 is a solid anti-settling agent that can be used for cement slurries at wide temperature (100-325°F) and density ranges (12-25lbs/gal) due to its unique chemical nature. It can be mixed with freshwater, seawater, and salt water depend on application requirement. KCM054 is generally used for low density slurries, over-dispersed cement slurries if required, and slurries containing high density weighting agents.

However, like most polymeric materials, KCM054 generally increases slurry viscosity especially at higher loading. It is approved by lab testing that KCM054 is compatible with most well cement additives and is not sensitive to cement brands. Zero free water and no sedimentation are generally observed on cement slurries containing KCM054. It has no effect on fluid loss control and retardation of cement slurries except for viscosity increase described above.

4. Treatment

1-4% BWOC is typically enough for effective control of free water and sedimentation. In the cases of low-density slurries, it can be used up to 15% BWOC.

5. Packaging

KCM054 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.