

Flow-off Additive KCM028

1. Introduction

Gas migration control agents are generally used to prevent formation fluid migration from occurring. Flow-off technology which contains gas migration control agent KCM028 is specifically developed to form flow resistance to formation fluids so that the formation fluids cannot migrate during the transition period of cement hydration.

2. Physical Properties and Hazards

Additive	Form	S.G.	Flash Point (°C)	Health Hazard	Physical Hazard	pH
KCM028	White liquid	0.98-1.08	>93	Eyes, skin	None	6.0-8.0

3. Chemical Properties and Application

KCM028 can be used for cement slurry design at wide temperature (65-150°C) and density ranges (10.5-20lbs/gal) due to its unique chemical natures. It can be mixed with freshwater, seawater, and salt water depend on application requirement.

Together with stabilizer KCM018 and KCM018A, Flow-off additive KCM028 provides superior fluid migration control in cementing gas-bearing formations while maintaining proper rheological properties (PV 10-60cP/YP 1-10 lbs/100ft²), fluid loss control (less than 35mL), and accurate thickening time (1-10 hour adjustable).

Lower free water is generally expected for cement slurries containing KCM028. It is compatible with most cement additives and environmentally friendly.

4. Treatment

1.0-3.5 gal/sk loading is generally required for effective gas migration control depend on temperature, mixing water, and slurry density. Typically, higher the temperature, lower the density, and more KCM028 is required for effective gas migration control.

5. Packaging

This product is supplied in 53 gallons high density polyethylene (HDPE) drums.

Keep it away from extreme conditions such as places near flames or direct sunlight.