

Surfactant KCM035

1. Introduction

Most drilling fluids are not designed for easy displacement and are not compatible with cement slurry. A buffer generally called pre-flush or spacer must be placed between the drilling fluid and cement slurry to avoid the contacts with each other, by adding certain materials such as KCM035 or other materials in the pre-flush or spacer to alter the properties and compatibility with both drilling fluids and cement slurry.

KCM035 is a surfactant compatible with cement slurries and most of oil based or synthetic based drilling fluids. It is mixed with water to form a chemical wash solution and can also be incorporated into the spacers.

2. Physical Properties and Hazards

Additive	Form	S.G.	Flash Point (°C)	Health Hazard	Physical Hazard	pH
KCM035	Colorless liquid	0.90-1.00	>32	Moderate to Eyes	Moderate to Eyes fire	5.0-6.0

3. Chemical Properties and Application

KCM035 is recommended to be mixed with fresh water or possibly with seawater and generally concentration is at 48 L/m³ of chemical wash (2gal/bbl.), to achieve good mud removal. It is recommended to use a volume corresponding to at least a 10 min contact time. The compatibility test should be performed according to ISO-10426-2 (A-PI-RB10B-2) with actual sample of materials. The reverse emulsion test should be performed if it is used with oil-based mud (OBM) or Synthetic based mud (SBM).

4. Treatment

KCM035 is generally recommended at 48 L/m³ of chemical wash or spacer.

5. Packaging

This product is supplied in 55-gallon high density polyethylene (HDPE) drums.

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