

Calcium Chloride KDF013

1. Introduction

Salts in drilling fluids inhibit shale hydration and wellbore collapse via ionic effects, regulate fluid density, filtrate activity and rheological properties.

Calcium Chloride KDF013 is used as a soluble weighting agent and as a source of calcium in calcium-inhibitive muds. In invert-emulsion muds it is used to adjust the activity of the water phase.

2. Physical Properties and Hazards

Additives	Form	S.G.	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KDF013	White Particles	2.20	Soluble	770	Eyes, Skin, Inhalation	Dust	6-8

3. Chemical Properties and Application

Calcium chloride is used as a soluble weighting agent and as a source of calcium in calcium-inhibitive muds. The maximum density obtainable is 11.6 lbm/gal (S.G. 1.39).

Chemical Nature: CaCl_2 with Molecular Weight 58.4.

Solubility: Soluble in water up to 42% CaCl_2 w/w at 20°C (68°F).

4. Treatment

As required, the concentration of KDF013 depends on brine density or activity specified. The maximum density obtainable is 11.6 lbm/gal (S.G. 1.39).

5. Packaging

KDF013 is supplied in 50 KG polythene paper sacks.

Keep it away from extreme conditions such as places are wet and humid or direct sunlight.