

Caustic Soda KDF018

1. Introduction

Caustic Soda KDF018, also known as sodium hydroxide, is commonly used to maintain the proper pH of the drilling and completion fluids.

2. Physical Properties and Hazards

Additive	Form	S.G.	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KDF018	White Flakes	2.13	Soluble	-	Eyes, Skin, Inhalation	Corrosive	Up to 14

3. Chemical Properties and Application

Caustic soda KDF018 is used to control pH in various drilling and completion fluids. This provides the alkaline environment necessary for the correct degree of dispersion of clays and the full ionization of dispersants (such as lignosulphonates) and of some polymers. Maintaining a high pH also aids corrosion control and reduces contamination by calcium or magnesium which are precipitated as hydroxides.

Chemical Nature: NaOH, Molecular Weight 40.0. Strong Alkali.
 Solubility: Soluble in water up to 42 g/100 mL at 0°C (32°F)
 Addition can lead to significant temperature increases (exothermic reaction)

4. Treatment

Add carefully and slowly, over a complete circulation through a chemical barrel. The amount required depends on the type and concentration of the mud components, as well as the desired pH.

5. Packaging

KDF018 is supplied in 25 KG polythene-lined plastic sacks or steel drums.
 Keep it away from extreme conditions such as places wet and humid or direct sunlight.