

BICARBONATE OF SODA



BICARBONATE OF SODA (NaHCO_3) is used primarily to remove calcium contamination from water-based drilling fluids following cementing operations.

Application

BICARBONATE OF SODA (NaHCO_3) is used as a calcium sequester (water softener). Bound Calcium is precipitated out of solution thereby removing it from the system. BICARBONATE OF SODA also acts as a pH control, reducing the pH of the system.

Advantages

- Primarily used to prevent or treat calcium contamination in water-based drilling fluids
- Effectively and economically treats out calcium ions by removing them as an insoluble carbonate
- Will reduce the pH of the drilling fluid

Typical Usages

Typical Amounts of BICARBONATE OF SODA Added to freshwater		
Drilling Application	lb/bbl	kg/m ³
Cement	8-16	28-45.5
pH Control	Add as necessary. Start at 0.1 kg/m ³	
Hardness Control	Add as necessary. Start at 0.1 kg/m ³	

Properties

Physical Appearance	White Granulas
Specific Gravity	2.16
Solubility	Moderately Soluble (1-10%)

Packaging

BICARBONATE OF SODA is packaged in 55-lb (25-kg) multi-wall bags with 56 bags/pallet