



Technical Data Sheet

Sodium Bicarb

Product Description

Sodium Bicarbonate, bicarbonate of soda, bicarb, and baking soda are all common names for sodium bicarbonate. It is used in water-base muds to precipitate calcium and reduce pH. The primary use is for treating cement contamination.

Applications: Precipitation of calcium; reduces pH; and deflocculates cement-contaminated fluids.

Treatments: Treatments for Sodium Bicarb depends on the amount of cement to be drilled, and the degree the cement has cured. Treatments should be made on an incremental basis to prevent overtreatment that could result in flocculation do to bicarbonates.

Typical concentrations range from 0.5 to 2 lb/bbl

Product Formulas

One pound of Soda Bicarb will remove the 0.88 Lime, which is equivalent to 1.3 pounds of cement.

Soda Bicarb to reduce cement contamination:

Soda Bicarb (lb/bbl) = Excess Lime (lb/bbl) x 1.135 x Fw

Where: Fw = Water Fraction from retort analysis (% water/100)

KEY BENEFITS

- Precipitation of Calcium
- Decrease pH
- Treat cement-contamination in water-base mud systems

Key Properties

pH	8.3
Color	White
Physical Form	Powder
Sg	2.19
Solubility @ 86°	11.1g/100 ml water
Packaging	50 lb Sacks