

Soda Ash

PRODUCT DESCRIPTION

SODA ASH is used in water-base muds as a source of carbonate ions to precipitate calcium, increase pH or flocculate spud muds. SODA ASH is the common name for sodium carbonate (Na_2CO_3). It is a weak base which is soluble in water and dissociates into sodium (Na) and carbonate (CO_3) ions in solution.

ADVANTAGES

- Widely available and an economic source of carbonate ions to precipitate calcium while increasing pH.
- Concentrated chemical; effectively removes calcium in most drilling fluids in small treatments. Also an effective flocculant for spud muds.

LIMITATIONS

- Increases pH and should not be used to treat cement contamination or higher pH fluids; is less soluble at high pH.
- Over treatment results in carbonate contamination; even minor amounts of excess carbonate ions can cause large increases in yield point, gel strengths and fluid loss.

APPLICATIONS

SODAASH is primarily used to reduce soluble calcium in water-base drilling muds and makeup waters.

TYPICAL PHYSICAL PROPERTIES

Physical appearance	White powder
Specific gravity	2.51
pH (1% solution)	11.4

PACKAGING

- 50 lb and 100 lb sacks