



Caustic soda

Product Description

Caustic Soda is used to increase pH in muds. Increase pH with Caustic Soda precipitates magnesium (Mg^{2+}) and suppresses calcium (Ca^{2+}) in high hardness such as seawater, and neutralizes acid gases such as carbon dioxide and hydrogen sulfide. It can soluble in water and reacts violently with water, then gives off extreme heat. For this reason, Caustic Soda should be added to water very slowly with sufficient agitation to prevent violent boiling or spurting.

Applications/Functions

- Increase pH and alkalinity in drilling fluids
- Neutralizes acid gases

Advantages

- Minimizes the solubility of calcium as well as magnesium contaminants in drilling fluids
- Controls the pH and alkalinity properties of drilling fluids

Typical Properties

- Appearance: White flakes, or pellets
- Specific gravity: 2.13
- pH: 13 (1% aqueous solution)

Recommended Treatment

- Typical concentrations range from 0.25 to 4 ppb with treatments depending on water chemistry and type of drilling fluid
- Caustic Soda should be added very slowly and notice the PPE requirement

Package

- 25 KG SACK

