



Sodium Hydroxide

Dry Pellet pH Regulator

Description:

Sodium Hydroxide, NaOH, is a white solid sold in pellet form. Sodium Hydroxide is completely ionic, containing sodium ions and hydroxide ions. The hydroxide ions make Sodium Hydroxide a strong base which reacts with acids to form water and salts. This is what controls the pH of Shore Pac[®] slurry when drilling in acidic organic peat soil and brackish salt-impacted soil. Sodium Hydroxide is also an alkaline metallic base, making it an ideal pre-treatment additive to enhance flocculation of solids with the Insta-Clear Dry additive.

Recommended Use:

Sodium Hydroxide is used in Shore Pac[®] slurry systems to regulate and treat pH. Shore Pac[®] foundation drilling slurry performs at maximum levels with the right pH of 8-10. Sodium Hydroxide controls pH of Shore Pac[®] slurry when drilling in contaminants such as acid peat soils (organics), hard water (450 ppm), and soil saturated with sea water.

Characteristics:

- Odorless white solid (pellets)
- pH (1% solution): 13.6.
- Weight/Gallon: 12.7-12.8 lbs
- High Solubility in water: 111g/100ml(20°C)
- Specific Gravity: 2.12 g/cm³ solid.

Mixing and Applications:

Add Sodium Hydroxide to slurry makeup water before adding Shore Pac[®] polymer. Dosage will vary with type and quality of makeup water and presence of soil contaminants such as acidic organic peat soils and evaporate salt formations. Typical fresh water usage rates are 2.5 to 5.0 lbs per 1,000 gallons makeup water. Sodium Hydroxide dissolves readily in water. Add slowly through a hopper at a ratio of 5 lbs per 1000 gallons mix water.

Advantages:

Storage: No freeze concerns with dry pellets
Dry Solid: No splashing "glugging" liquid burn hazards
Pellet shape: No wind blown particles reducing eye threat
Economical: Vs. liquid the dry pellets cost less and work better
Easy To Use: Very soluble in water with liberation of heat
Dosage Rate: 2.5 to 5.0 lbs per 1,000 gallons makeup water

Packaging Personal Safety:

55 lb, multiwall plastic airtight bags, 40 bags per pallet. The dry pellet form of Sodium Hydroxide reduces the chance of chemical burn hazards from handling and wind blown particles, however, it is a strong alkali and workers should wear chemical goggles when handling, along with rubber gloves.