

# SODIUM BICARBONATE

## NEUTRAL PH BUFFER

### DESCRIPTION

SODIUM BICARBONATE,  $\text{NaHCO}_3$  is used to lower the pH of drilling slurry from a pH of 12-13 (alkaline) to a neutral pH range of 8-9. A white powder, SODIUM BICARBONATE is also added to a base drilling fluid as a pH neutralizing additive. A buffer, SODIUM BICARBONATE is added to acidic water to raise the pH to 8-9.

### RECOMMENDED USE

SODIUM BICARBONATE is used to treat cement contamination in SHORE PAC drilling slurry and bentonite water based drilling fluids. It is also used as a buffer. SODIUM BICARBONATE will remove calcium and manganese making hard water soft.

### CHARACTERISTICS

- Easy to mix and use, soluble in water
- Economical method to lower pH
- Safe to use, noncombustible

### MIXING AND APPLICATION

SODIUM BICARBONATE should be added to the mixing water prior to mixing the primary drilling product. SODIUM BICARBONATE dissolves readily in water. Add slowly through a hopper at a ratio of 5 lbs per 1,000 gallons mix water.

### CHARACTERISTICS

Appearance	White powder
Solubility	7.8 g/100 g water @ 64 °F (18 °C)
pH (1% solution)	8.3
Density	2.2

### PACKAGING

50 lb bags, 49 bags per pallet.

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