

# CAUSTIC SODA BEADS

Sodium Hydroxide

## INCREASE PH AND ALKALINITY

Caustic Soda Beads (Sodium Hydroxide (NaOH)) are a strong alkali used to increase the pH and alkalinity of the liquid phase.

To obtain a given pH, the amount needed may be affected by a variety of drilling fluid products and related activities. The following chart is an approximation only.

**Note:** Additions made to water with a 7.0 pH.

## FEATURES & BENEFITS

- Helps to solubilize acidic compounds
- Assists in reducing the corrosivity of water based drilling fluids
- Increases the hydration rate of dispersed clays
- Restrict the solubility of lime, in lime based muds

Caustic Soda	pH	p-Alkalinity
1.00 kg/m <sup>3</sup>	8.5 - 9.0	0.1 - 0.25
2.20 kg/m <sup>3</sup>	10.0 - 10.5	0.5 - 0.7
2.90 kg/m <sup>3</sup>	11.0 - 12.0	0.8 - 1.0
5.80 kg/m <sup>3</sup>	14.0	3.0

## PHYSICAL PROPERTIES:

Appearance: White pellets  
Specific Gravity: 2.13  
Bulk Density: 1169 kg/m<sup>3</sup>

## CHEMICAL PROPERTIES:

Type: Sodium Hydroxide  
Solubility: 100% Soluble (water)  
pH: 13.0 (1% solution)

## MIXING & HANDLING

Caustic Soda Beads are a strong alkali and produces a strong basic solution. The reaction with water generates heat.

Caustic Soda Beads will cause severe burns and skin/eye contact is to be avoided at all times. To avoid contact, wear a protective apron, full clothing, rubber gloves, goggles and face mask.

In the event of contact wash immediately with water for 15 minutes. Seek medical attention if burning persists or if the contacted area is inflamed.

**\*DANGER\*** Always add Caustic Soda to the water and watch for bubbling and splashing.

**WHMIS:** Controlled (See MSDS)

**TDG:** Regulated (See MSDS)

**Packaging:** 50lb sack

