

# CAUSTIC SODA

# PRODUCT DATA

## Sodium hydroxide, NaOH, lye

**Caustic Soda** is the common name for sodium hydroxide (NaOH) or lye. **Caustic soda** is commonly used to increase the pH in water based drilling and completion fluids.

### APPLICATION:

- Commonly used as a hydroxyl source to increase and control pH
- Can provide corrosion control through pH
- Can assist in controlling and indicating the presence of H<sub>2</sub>S and other acidic gases
- May be used to precipitate magnesium at pH 10.3 and above

### RECOMMENDED TREATMENT:

Caustic Soda (kg/m <sup>3</sup> )	pH	P-Alkalinity (mg)
0.70	7.5-8.0	Trace
1.00	8.5-9.0	0.1-0.25
1.45	10.0-10.5	0.3-0.50
2.20	11.0-12.0	0.5-0.70
2.90	14.0	0.8-1.00
5.80	14.0	3.0
8.70	14.0	5.0
11.6	14.0	7.0

### TYPICAL PROPERTIES:

- Appearance: White beads
- Specific gravity: 2.13
- Solubility: Soluble
- pH: 13.0 (1% solution)

### MIXING/HANDLING: **USE EXTREME CAUTION**

Mix slowly and carefully through a chemical barrel or injection tank. **ALWAYS ADD CAUSTIC SODA TO WATER, NEVER WATER TO CAUSTIC SODA.** **CAUSTIC SODA** is a strong alkali and products a strong base solution when mixed with water. The reaction is exothermic (generates heat) and cold water should always be used to start. **CAUSTIC SODA** will cause severe burns. **See the Safety Data Sheet for complete safety, health, and environmental data.**

### PACKAGING:

- 25 kg bags, 42 bags per pallet. Palletized, and stretch-wrapped.