

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 H₂S and other acidic gases
- May be used to precipitate magnesium at pH 10.3 and above

RECOMMENDED TREATMENT:

Caustic Soda (kg/m ³)	рН	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.

Recommendations given in this bulletin are based on tests believed to be reliable. However, the use of the information is beyond the control of Integrity Chemical Solutions Inc. and no guarantee, expressed or implied is made to the results obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage from the misuse of the product as such, or in combination with other materials. This bulletin is not to be taken as a license to operate under or recommendation to infringe any patent.