

CAUSTIC SODA

PRODUCT DATA

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/m³)	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. CASUTIC 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. Always refer to the SDS for specific precautions and handling requirements.

Packaging is available in 25 kg bags, 42 bags per pallet. Palletized, and stretch-wrapped.

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