

CAUSTIC SODA

ALKALINITY CONTROL

CAUSTIC SODA is the common name for Sodium Hydroxide (NaOH). CAUSTIC SODA is used primarily to increase and control pH in water-based fluids.

FEATURES AND BENEFITS:

- Is a source of hydroxyl ion to increase and control pH.
- Provides pH control required for effectiveness of drilling fluid additives.
- Provides corrosion control through pH.
- May be used to precipitate hardness such as Mg^{++} at pH above 10.3.

RECOMMENDED TREATMENT: as required (0.5-1.5 kg/m³ typical)

Caustic Soda (kg/m ³)	pH	p-Alkalinity (mg)
0.70	7.5-8.0	Trace
1.00	8.5-9.0	0.1-0.25
1.45	9.5-10.0	0.3-0.50
2.20	10.0-10.5	0.5-0.70
2.90	11.0-12.0	0.8-1.00
5.80	14.0	3.0
8.70	14.0	5.0
11.6	14.0	7.0

PHYSICAL 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 or injection barrel. ALWAYS add CAUSTIC SODA to water; NEVER add water to CAUSTIC SODA. CAUSTIC SODA is a strong alkali and produces a strong base solution when mixed with water. The reaction generates heat. CAUSTIC SODA will cause severe burns. Refer to the SDS for specific precautions and handling requirements.

MICROTOX® THRESHOLD: TBD. Under the ERCB Directive 050, over use of CAUSTIC SODA may detrimentally affect the salinity requirements (EC, SAR).

PACKAGING: 22.68 kg bag / 60 bags/pallet