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## CAUSTIC SODA

**DESCRIPTION** Caustic Soda or sodium hydroxide (NaOH) is generally available in pelletized form.

**APPLICATION** Caustic Soda is a strong alkali used to increase pH and alkalinity of the liquid phase. For a given pH, the amount needed is affected by many factors. Therefore, the following chart is an approximation only. Additions made to water with a 7.0 pH.

| <u>Caustic</u>         | <u>pH</u>   | <u>p-Alkalinity (cc)</u> |
|------------------------|-------------|--------------------------|
| 0.70 kg/m <sup>3</sup> | 7.5 - 8.0   | trace                    |
| 1.00 kg/m <sup>3</sup> | 8.5 - 9.0   | 0.1 to 0.25              |
| 1.45 kg/m <sup>3</sup> | 9.5 - 10.0  | 0.3 to 0.5               |
| 2.20 kg/m <sup>3</sup> | 10.0 - 10.5 | 0.5 to 0.7               |
| 2.9 kg/m <sup>3</sup>  | 11.0 - 12.0 | 0.8 to 1.0               |
| 5.8 kg/m <sup>3</sup>  | 14          | 3.0                      |
| 8.7 kg/m <sup>3</sup>  | 14          | 5.0                      |
| 11.6 kg/m <sup>3</sup> | 14          | 7.0                      |

**HANDLING** Caustic soda is a strong alkali and produces a strong basic solution. The reaction with water generates heat. Always add Caustic to the water and watch for bubbling and splashing. Caustic will cause severe burns and skin/eye contact is to be avoided at all times. To avoid contact, wear full clothing, rubber gloves and goggles (or face masks). In the event of contact wash immediately with water for at least fifteen minutes. Seek medical attention especially if burning persists or the contacted area is inflamed.

**WHMIS** Controlled (See MSDS)  
**TDG** Regulated (See MSDS)  
**PACKAGING** 50 lb sack (waterproof layer)

*NOTE: See disclaimer for supplier responsibility.*