

# SODA ASH



SODA ASH is the common name for Sodium Carbonate ( $\text{Na}_2\text{CO}_3$ ). SODA ASH is used primarily to remove calcium from make-up water and to treat calcium contamination, mainly from drilling anhydrite.

## Application

SODA ASH is used to increase alkalinity and control pH. SODA ASH is used to remove calcium ions from solution. Keeping a low calcium level will increase the hydration rate of bentonite and polymers. Sodium levels should be limited to the requirements described in ERCB D-50 salinity requirements (EC- SAR).

## Advantages

- Effectively removes calcium ions
- Increases the alkalinity and reduces calcium hardness, therefore
- increasing the yield of bentonite and many polymers

## Typical Usages

| Typical Amounts of SODA ASH Added to freshwater              |           |                   |
|--------------------------------------------------------------|-----------|-------------------|
| Drilling Application                                         | lb/bbl    | kg/m <sup>3</sup> |
| Water Treatment                                              | 0.1 - 0.4 | 0.3 - 1.1         |
| 1.0 kg/m <sup>3</sup> SODA ASH removes ~350 ml/L Calcium ion |           |                   |

## Properties

|                     |                  |
|---------------------|------------------|
| Physical Appearance | White Powder     |
| Specific Gravity    | 2.53             |
| Solubility          | Slightly Soluble |
| pH                  | 11.3             |

## Packaging

SODA ASH is packaged in 50lb multi-walled sacks or buckets (USA) and 25kg multi-walled sacks or buckets (CAN).