



## Product Information

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### Soda Ash

#### GENERAL DESCRIPTION

Soda Ash or Sodium Carbonate ( $\text{Na}_2\text{CO}_3$ ) is used primarily to remove Calcium contaminations that occur in water base drilling fluids primarily caused by drilling anhydrite.

#### FEATURES AND BENEFITS

Soda Ash effectively and economically treats out Calcium ions ( $\text{Ca}^{++}$ ) by removing them as insoluble carbonates.

Soda Ash increases the pH range of the drilling fluid. Soda Ash reduces total hardness of make-up water which results in better yield from Polymers.

Soda Ash is primarily utilized as to treat Calcium contamination in water base drilling fluids caused by drilling sections of anhydrite. It is also used to reduce the total hardness of make-up water.

#### RECOMMENDED TREATMENT

Soda Ash is normally added in  $0.75\text{kg}/\text{m}^3$  to reduce total hardness in make-up water. When used to treat anhydrite contamination, it is added as required to treat out total hardness and to stabilize rheology.

Provided the saturation level of the Calcium salt has not been exceeded, the amount of Soda Ash required to treat out the Calcium can be approximated by  $-350\text{mg}/\text{L}$  Calcium ions required  $1.0\text{ kg}/\text{m}^3$  of Soda Ash.

Over treatment with Soda Ash can result in a Carbonate alkalinity and consequently, excessive Gel strengths.

#### TYPICAL PHYSICAL PROPERTIES

Appearance	off white powder
Specific Gravity	2.533
Solubility	soluble in water
pH in 15% solution	11.7

#### HANDLING

Soda Ash is classified as D2B controlled product under the WHMIS classification.

For specific precautions and handling see MSDS information.

#### AVAILABILITY

Soda Ash is packaged in 25kg bags and is available from HiTech Fluid Systems Ltd.