



# Soda Ash

## Alkalinity Agent

**Description** Soda Ash alkalinity agent is a granular powder form of sodium carbonate primarily used to condition and soften make-up water and to raise pH.

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- Applications/Functions**
- Treat out calcium hardness in make-up water
  - Raise pH
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- Advantages**
- Can eliminate calcium ions by converting to insoluble carbonate
  - Can maximize the performance of bentonite and polymer products
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**Typical Properties**

• Appearance	Variable-colored powder (white to gray)
• pH of 5% solution	11.5
• Bulk density, lb/ft <sup>3</sup>	57-65

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- Recommended Treatment**
- Hardness and pH levels of make-up water should be checked prior to addition of Soda Ash.
  - When treating make-up water, pH ranges should be maintained between 8.5 – 9.5
  - Addition of Soda Ash should always be done prior to addition of bentonite or polymer to the fluid system.
  - Soda Ash alkalinity agent should not be added at the same time as other drilling fluid components.

**General Treatment:**

- 1-2 pounds of Soda Ash alkalinity agent per 100 gallons of make-up water or 1.2-2.4 kilograms per cubic meter of make-up water.
  - Use as required to remove calcium ions but do not add in excess as overtreatment can lead to detrimental effects and reduced performance of the drilling fluid components and/or system.
  - Mix slowly through a jet mixer or sift slowly into the vortex of a high-speed stirrer.
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**Packaging**

Soda Ash is packaged in 50-lb (22.7 kg) or 100-lb (45.4 kg) multiwall paper bags.

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**Availability**

Soda Ash can be purchased through any Baroid Industrial Drilling Products Retailer. To locate the Baroid IDP retailer nearest you contact the Customer Service Department in Houston or your area IDP Sales Representative.

**Baroid Industrial Drilling Products  
Product Service Line, Halliburton**

3000 N. Sam Houston Pkwy. E.  
Houston, TX 77032

<b>Customer Service</b>	(800) 735-6075 Toll Free	(281) 871-4612
<b>Technical Service</b>	(877) 379-7412 Toll Free	(281) 871-4613

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