

Product Information

Soda Ash

Calcium Remover – Special Chemical

Description: *Soda Ash* is a white, granular powder primarily used to condition and soften make-up water and remove calcium contamination in water based drilling fluids.

Soda Ash is also used to raise the pH of make-up water for bentonite drilling fluids by precipitating the soluble calcium.

Soda Ash is the common name for sodium carbonate (Na_2CO_3).

Applications: Horizontal Directional Drilling (HDD)
Vertical & Oil Field Drilling
Mining

Properties:

- Treat out hardness due to calcium in make-up water
- Easy to mix and use
- Widely available and an economical method of increasing pH
- Maximize the performance of bentonite
- *Soda Ash* effectively and economically treats out Calcium ions (Ca^{++}) by removing them as insoluble carbonates
- Reduces total hardness of make-up water which results in better yield from polymers

Recommended Concentrations:

- 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* should not be added at the same time as other drilling fluid components
- To reduce total hardness in make-up water *Soda Ash* is added in 0,25 to 0,75 kg/m^3
- To treat out calcium the amount of *Soda Ash* can be approximated by: 1 kg/m^3 required for 350 mg/L calcium ions.
- Caution: Overtreatment can lead to detrimental effects and can result in carbonate contamination

SODA ASH should be added slowly to the mud system either by mixing through the hopper or chemical barrel. Soda Ash should not be mixed with other chemicals. Soda Ash is to be handled as an industrial chemical.

Packaging: 25 kg plastic or multi-wall paper-bags on pallet, shrink wrapped, 1000 kg per pallet