

SODA ASH

Treating Chemicals

IMDEX™

Description

SODA ASH, also known as sodium carbonate (Na_2CO_3), is a free-flowing powder used in drillings fluids to remove dissolved calcium (hardness) and increase alkalinity (pH).

Application

SODA ASH is used to treat soluble calcium contamination from the make-up water and fluid system. Treatment is required prior to the addition of bentonite and most polymers as calcium ions can severely interfere with their performance and increase the dosages required to achieve the desired fluid properties.

The most efficient way to treat contamination and make pH adjustments is to titrate for hardness and test pH using a meter or indicator strips. Addition of SODA ASH should always be done prior to addition of polymers or Bentonite, pH ranges should ideally be maintained in the range of 8.5 – 9.5.

Recommended Treatment

To reduce calcium hardness in make-up water SODA ASH is added in 0.25 – 0.75 kg / m³ doses, however treatment can vary depending on the concentration of calcium present. Soda Ash is added at a rate of 250g / m³ to treat 100 mg / L of calcium hardness.

It is important not to over treat with SODA ASH as this can lead to an excessively high pH and have detrimental effects on the fluid properties due to carbonate contamination.

Please Note: Several factors will dictate the most appropriate concentration rate. Please contact your nearest AMC representative for optimum results.

Advantages

- Effective in removing soluble calcium
- Effective at increasing pH
- Reduces the impact calcium has on product dosage rates
- Reduces overall fluid costs

Typical Physical Properties

Appearance:	White powder
pH (1% solution):	11 – 11.5
Specific gravity:	2.4 – 2.6

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