

SODA ASH

TREATING CHEMICALS



Description

SODA ASH is a free flowing powder also known as sodium carbonate (Na_2CO_3) used in a fluid system to precipitate 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 as calcium ions can severely interfere with the performance of many polymers and bentonite rendering them ineffective.

Typical Physical Properties

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

Recommended Treatment

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.

To reduce calcium hardness in normal make-up water SODA ASH is added in 0.25 – 0.75 kg / m³ (0.088 – 0.26 lb / bbl) doses, however treatment can vary depending on the concentration of calcium present. To remove hardness, estimate total hardness first and then calculate the quantity of soda ash required as below: Soda Ash is added at a rate of 0.264 kg / m³ (0.0927 lb / bbl) to treat 100 mg / L of calcium.

Caution: Over treatment can lead to detrimental effects and may result in carbonate contamination.

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

Advantages

- Inexpensive treatment for hardness
- Effective in removing soluble calcium
- Promotes maximum product potential
- Reduces overall fluid costs.

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