

ASHAION-702

Super-Threshold Membrane Antiscalant

Description-

ASHAION 702 is a super-threshold RO membrane antiscalant and antifoulant which is able to stabilize a wide range of supersaturated salt solutions, thereby prevents the precipitation on the membrane surface.

It minimizes the risk of scaling and eliminates the use of hazardous acids, resulting in efficient plant operation with highest possible conversion rate.

ASHAION 702 is effective in minimizing scaling in foulants like Calcium carbonate, Sulphate salts of Calcium, Barium, Strontium and Magnesium, Calcium Fluoride, Iron and Silica.

Physio-chemical data

Properties	Unit	Typical value
Form and Appearance	-	Pale Yellowish Liquid
Specific Gravity	-	1.15± 0.02
pH(neat)	pH	10.5±1.0
Solubility in water		100

Key features and benefits:

- 1.Safe to handle and use.
- 2.Very high recovery rate of membrane.
- 3.Low chemical dosage and hence results cost effective.
- 4.Effective over a wider variety of foulants.
5. Does not cause any calcium or iron based phosphate deposition as in cas of SHMP
6. Establishes significantly longer intervals before cleaning
7. Compatible with all kind of membrane.

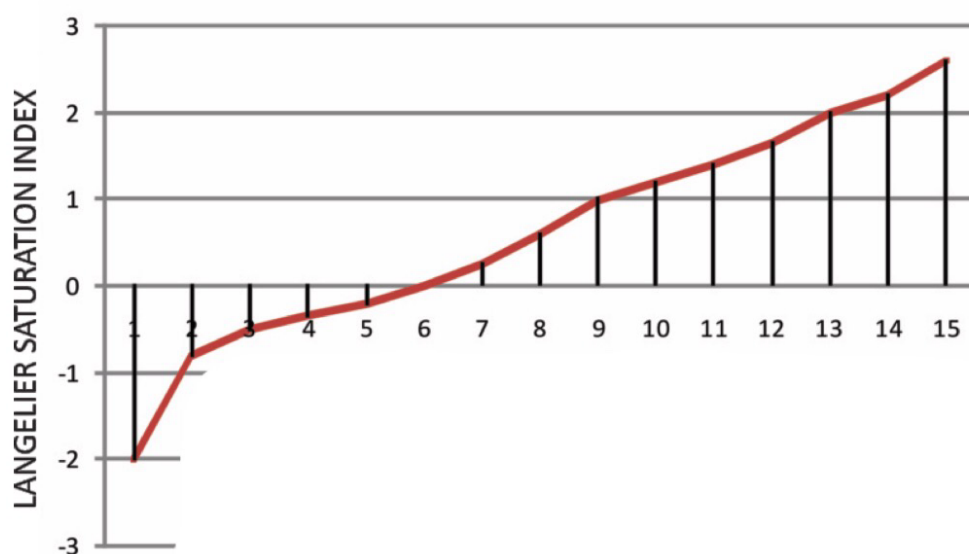
Dosage and method: Ashaion 702 is dose directly to the RO feed

water line (after pretreatment) at the minimum recommended dosage of 1 mg/l and maximum dosage at 15mg/l, subject to inlet water quality and parameters is respect of Calcium Hardness, iron, TDS, Alkalinity, pH and silica content.

High alkalinity and hardness can be controlled by dosing 4-5mg/l of the product. But in case of high iron content of about 1.2mg/l, the dosing has to be increased by 6-8 mg/l stabilizing Calcium

At about 10-15mg/l dosage ASHAION 702 is capable of fully inhibiting iron and calcium, and silica upto 217mg/l at pH 7.5. For higher silica content ASHAION 702 could be used

It is a highly effective antiscalant for waters with LSI upto +2.6, iron upto 1.2 mg/l in reject, Silica SCR<1.32, High SDI.



ASHAION 702 dosage in mg/l

Storage Protocols: ASHAION 702 is a stable chemical and is not expected to detourate significantly with time provided it is stored as indicated. As a good industrial practice, it is however recommended that it should not be stored for periods longer than 2 years. Jars should be stored in dry conditions away from sources of direct heat, preferable in the unopened original containers.

Handling measures & Precautions:

ASHAION 702 is non hazardous and non toxic for industrial use but basic care must be taken while handling the product in net form. Proper human safety products such as Splash goggles, lab coat, vapor respirator, gloves and boots should be worn while handling and applying chemicals.

Splashes on skin should be washed off with water immediately. In case of splashing into the eyes, flush it with fresh water and obtain medical attention. Should not be injected.

Packing:

ASHAION 702 is available in 5/25/50 kgs/250 kgs HDPE barrels and 1300 kgs IBC

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