

membrane chemicals

chemicals for your seawater reverse osmosis plant

Reverse osmosis (RO) membrane performance can be negatively impacted by impurities that build up on the membrane surface during operations. Suspended solids, microorganisms and mineral scale can foul membrane elements. These deposits can cause loss in output and/or rejection levels and reduce total system performance.

SUEZ offers a wide array of products to help you improve the performance of your membranes.

pretreatment coagulants and flocculants

The SoliSep* coagulant technology changes the surface charge of the colloidal particles to create agglomerates, or larger particles that are easier to settle/float and/or retain in the SWRO pretreatment systems (Clarifiers, Flotators/Hollow fiber filtration/Media filters). The SoliSep product range includes inorganic, organic and blended coagulants, which are selected based on the raw water quality.

The SoliSep product range includes products that can be used in potable water applications.

benefits to you

- Decreases particulate loading on the RO system
- Extends cartridge filter and membrane element life
- Reduces RO cleaning
- Improves overall operation of filtration system and clarifiers

antiscalants

The Hypersperse* pretreatment program from SUEZ is designed to eliminate scale and reduce fouling in membrane systems for SWRO systems.

The narrow feed water channel in spiral wound and hollow fiber elements accentuates scaling and fouling. SUEZ's Hypersperse pretreatment program is designed to eliminate scale build up and reduce fouling in membrane systems, regardless of the feed water source.

The Hypersperse product range includes products that can be used in potable water applications.

benefits to you

- Operate at higher recovery rates due to reduced scale potential
- Reduce the downtime caused by frequent membrane cleaning
- Prevent the need to replace expensive membranes prematurely
- Produce less concentrate

dechlorination

SUEZ's pretreatment line of dechlorination products includes a convenient, ready to use formulation which is NSF approved for potable applications and an economic dry formulation for on-site preparation.

The DCL series is designed to remove free and combined chlorine from RO and UF feedwater.

benefits to you

- No organic material or carbon fines added to RO or UF feed water
- Maintain optimum feed water conditions to and from your membrane system
- No added footprint from large filters
- prolongs membrane life

cleaners

SUEZ's Kleen* line of cleaners is formulated to function on SWRO systems producing potable water. Membrane cleaning is an essential component of any RO, nanofiltration, UF or microfiltration maintenance program. Successful membrane cleaning relies on both the effectiveness of the cleaning compound and the design and operation of the cleaning equipment. SUEZ can offer suggestions on cleaning system design and cleaning procedures to ensure the most effective results.

benefits to you

- Restores flux rates close to that of new membranes
- Prolongs membrane life
- Improves % recovery and % rejection rates
- Protects membranes from irreversible fouling

