



CHEMICAL PRODUCTS

- Antiscalant
- Cleaner Products
- Biocide
- Preservative
- Remineralizing

Chemical products for membrane system

Everblue offers a wide range of chemical products suitable for use on membrane systems in any step.

The raw materials of European origin of absolute quality used in the various production processes guarantee the creation of innovative and reliable chemical products. Everblue also has numerous insights into the use of chemicals available on our website.

Everblue chemical products line consists of:

- Antiscalant
- Cleaner Products
- Biocide
- Preservative
- Remineralizing











Everblue chemical products are made with the best technologies available on the market and are essential to safeguard plants from the disadvantages related to different types of food water, for example:

- Precipitation formation:** Water may contain substances that can precipitate and settle on the membranes of plants, reducing efficiency and causing damage.
- Contaminants:** Water may contain organic or inorganic contaminants that may accumulate on plant membranes, reducing their effectiveness in filtering water.
- Reduced efficiency:** the different characteristics of the feed water can affect the performance of membrane systems, reducing their efficiency in treating water.



Antiscalant

Everblue's antiscalant have been carefully studied and tested to ensure exceptional performance and benefits. The advantages of antiscalant products are:

-  Low dose rate
-  High efficiency against iron scaling
-  Less cleaning procedures
-  High efficiency against silica scaling
-  Maximum LSI 2,6 permit to operate at high recovery without acid dose
-  Products not hazardous
-  Compatible with all TFC membranes
-  Products easy to use

Product	Ideal application	In line dose rate	Approved for drinking applications	Plant size	$CaCO_3$	Fe/Mn	SiO_2	$CaSO_4$	$BaSO_4$	$CaPO_4$	$Mg(OH)_2$
Everblue 100 A	Brackish Water	2-4 ppm	FDA	Large							
Everblue 200	Brackish Water	2-10 ppm	/	Large							
Everblue 300	Brackish Water	7-35 ppm	FDA	Small							
Everblue 500	Specific for silica	2-5 ppm	FDA	Large							
Everblue 600	Sea Water	2-10 ppm	/	Large							

Best choice
 Effective

Everblue Software: EB2003

Everblue has realized a software **EB2003** to calculate the dose rate of the antiscalants depending on water analysis and the reverse osmosis characteristics. **EB2003** is perfect to optimise the reverse osmosis plants performances.

Project Information ✎ Edit

Project Name

End Customer

Project Date 2020-06-25

Plant Operation Data ✎ Edit

Feed Flow	150	m ³ /h
Product Flow	120	m ³ /h
Concentrate Flow	30	m ³ /h
Feed Temperature	30	°C
Operation Time	24	h/d
Recovery	80	%
Concentration Factor	5	
SDI	3	
Rejection	99.8	%

Antiscalant & Dosing Amount ✎ Edit

Antiscalant Selection

Antiscalant Information

Total Feed Dose 1.35 mg/l

Daily requirement 4.85 kg

Water Composition ✎ Edit

		raw	feed	brine	
Calcium	Ca	160	160	797.43	mg/l
Magnesium	Mg	90	90	448.55	mg/l
Sodium	Na	600	600	2990.36	mg/l
Potassium	K	0	0	0	mg/l
Ammonium	NH ₄	0	0	0	mg/l
Barium	Ba	0	0	0	mg/l
Strontium	Sr	0	0	0	mg/l
Iron	Fe	0	0	0	mg/l
Aluminium	Al	0	0	0	mg/l
Manganese	Mn	0	0	0	mg/l
Sulfate	SO ₄	250	250	1245.98	mg/l
Chloride	Cl	700	1128.36	5623.69	mg/l
Fluoride	F	0	0	0	mg/l
Bicarbonate	HCO ₃	300	265.97	1325.57	mg/l
Nitrate	NO ₃	0	0	0	mg/l
Phosphate	PO ₄	3	3	14.95	mg/l
Silicate	SiO ₂	20	20	99.68	mg/l
Bromide	Br	0	0	0	mg/l
Carbon Dioxide	CO ₂	0	33.04	33.04	mg/l
Carbonate	CO ₃	0	0.3	1.5	mg/l
Boron	B	0	0	0	mg/l

Water Classification ✎ Edit

	raw	feed	brine

📄 Export to PDF


🗑 Delete Revision


After the purchase of Everblue antiscalant products, the **EB2003** calculation software will be provided free of charge upon request.

Cleaner products

EB-CLEANER cleaner products guarantee perfect membrane washing. The advantages of cleaner products are:

 High efficiency to remove all kind of deposit from the surface of the membranes

 Compatible with all TFC membranes

 Concentrate products with minimum quantity for each cleaning procedure

 Easy to use

Products	Type of product	Remove	Dose rate into cleaning tank	Optimal conditions of use pH – Temperature
EB-CLEANER A1	Acid product <i>High level of active substances</i>	Calcium carbonate Iron	1.0% - 2.0% Volume	pH 2.0 - 4.0 25°C - 30°C
EB-CLEANER B1	Alkaine product <i>High level of active substances</i>	Insoluble sulphates Iron Coadjuvant B2	2.0% - 3.0% Volume	pH 10.0 - 11.0 25°C - 30°C
EB-CLEANER B2	Alkaline product <i>High level of active substances</i>	Organic deposits Biofilm Silica Oil and fats	1.0% - 2.0% Volume	pH 10.0 - 11.0 25°C - 30°C

Biocide

EB-BIOCIDE biocide products are designed for the preservation of the membranes of reverse osmosis systems that must remain inactive for long periods.

Product	Type of product	Remove	Dose rate Into cleaning tank	Optimal conditions of use pH – Temperature
EB-BIOCIDE PLUS	Fast acting biocide non-oxidizing	Microorganisms Bacteria	0.03% Volume	pH 6.0 - 7.5 25°C

Preservative

EB-CONSERVE preservative products are designed for the preservation of the membranes of reverse osmosis systems that must remain inactive for long periods. The advantages of preservative products are:


 Prevent the proliferation of microorganisms, algae and larvae of organisms


 They are compatible with TFC membranes

Product	Type of product	Ideal application	Dose rate into cleaning tank	Time of preservation
EB-CONSERVE 1	Preservative	Membrane preservation for long period	5% Volume	3 weeks

Remineralizing

EB-MINERAL remineralizing products are specifically designed to ensure proper remineralization of osmotized water. As a result of reverse osmosis processes, the waters are extremely pure and poor in salinity, therefore it is necessary to provide a correct intake of minerals appropriately balanced. The advantages of remineralizing products are:

 Fast remineralization

 Balanced supply of necessary salts

 Food/beverage base

Product	Type of product	Ideal application	In line dose rate	Products introduced into water
EB-MINERAL 1	Calcium chloride remineralizing product	Remineralization of water	130 ppm	$\text{Cl}^- - \text{Ca}^{2+}$
EB-MINERAL 2	Sodium bicarbonate remineralizing product	Remineralization of water	80 ppm	$\text{HCO}_3^- - \text{Na}^+$
EB-MINERAL 3	Sodium carbonate remineralizing products	Remineralization of water	15 ppm	$\text{CO}_3^{2-} - \text{Na}^+$
EB-MINERAL 10	Calcium chloride remineralizing product	Remineralization of water	1200 ppm	$\text{Cl}^- - \text{Ca}^{2+}$
EB-MINERAL 23	Sodium bicarbonate and sodium carbonate remineralizing product	Remineralization of water	1200 ppm	$\text{HCO}_3^- - \text{CO}_3^{2-} - \text{Na}^+$

More Info



Catalog
Chemical Products



Operating Manual
Chemical Products



Contact Us



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