

## Antiscalant & Antifoulant Product Support

Flocon Antiscalant water additives, used as pretreatment for Reverse Osmosis systems, are highly effective in preventing membrane scaling. Applied Membranes carries a large inventory of Flocon Antiscalant at competitive prices with technical support. Our design engineers can help you determine the proper dosing for our application. Most products in stock for immediate shipment.



### Flocon 135 Antiscalant for RO Systems

Flocon 135 is an aqueous solution of a specialized phosphinocarboxylic acid, highly effective in controlling the deposition of inorganic scale forming salts on membrane surfaces.

- Excellent control of carbonate and sulphate scales for cost effective operation
- Compatible with all major membranes
- International potable water approvals
- Dispersant
- Iron tolerant

#### Ordering Information

Model Number	Container Size
AS-135-55	55 lb (25 Liters, 6.6 Gallons)
AS-135-500	475 lb (197.5L, 52 Gallons)

### Flocon 260 Premium Antiscalant and Antifoulant

Flocon 260 is an aqueous solution of a specialized polycarboxylic acid, highly effective in controlling the deposition of inorganic scale forming salts and particulate fouling on membrane surfaces.

- Excellent control of carbonate scales, sulphate and fluoride for cost effective operation
- Effectively control both soluble and insoluble iron
- Effective against silica fouling
- Dispersant
- Compatible with all major membranes
- International potable water approvals

#### Ordering Information\*

Model Number	Container Size
AS-260-55	55 lb (25 Liters, 6.6 Gallons)
AS-260-500	475 lb (197.5L, 52 Gallons)

*\*Note: Flocon 260 is classified as DOT hazardous material and is not available for shipment by UPS or air. Available for common carrier or ocean shipment only.*

### Flocon 190 Antiscalant for Reverse Osmosis Systems

Flocon 190 is a solution of an organic phosphonate. Flocon 190 is highly effective in controlling the deposition of inorganic scale forming salts on membrane surfaces.

- Excellent control of carbonate and sulphate scales for cost effective operation
- Will not adversely interact with polymeric coagulant aids
- Compatible with all major membranes
- International potable water approvals

#### Ordering Information

Model Number	Container Size
AS-190-55	55 lb (25 Liters, 6.6 Gallons)
AS-190-500	475 lb (197.5L, 52 Gallons)

### Flocon Plus N Antiscalant for Seawater Reverse Osmosis Systems

Flocon Plus N antiscalant is a high performance liquid product, highly effective in controlling the deposition of inorganic scale forming salts on seawater membrane units (SWRO).

- Excellent control of carbonate and sulphate scales for cost effective operation
- Compatible with all major membranes
- International potable water approvals
- Dispersant

#### Ordering Information

Model Number	Container Size
AS-PLUSN-55	55 lb (25L, 6.6 Gallons)
AS-PLUSN-500	475 lb (197.5L, 52 Gallons)

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## Antiscalant & Antifoulant Product Support

### Flocon Antiscalant Product Selection Guide

All Flocon products listed carry Potable Approval (NSF) and Membrane Manufacturer Approval.

Product	Description	Feed Water	Product Effective Against*													
			CaCO <sub>3</sub> LSI	CaCO <sub>3</sub> SDI	CaSO <sub>4</sub>	BaSO <sub>4</sub>	SiSO <sub>4</sub>	CaF <sub>2</sub>	Ca(PO <sub>4</sub> ) <sub>3</sub>	Silica	Iron	Heavy Metals	Organics	Polymeric Coagulants	Silt/Clay	
Flocon 260	Premium Product, anti-foulant for unit operating at high recovery.	Brackish Water Sea Water Waste Water	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Flocon 135	Scale inhibitor for unit operating at high recovery	Brackish Water Sea Water	E	E	E	E	G	G			E	G				E
Flocon Plus N	Inorganic scale inhibitor for SWRO	Sea Water	E	E	G	G	G	G			G	G				G
Flocon 190	Non Polymeric inorganic scale inhibitor	Sea Water, Waste Water	E	E	G	G	G	G			G	G			G	

E = Excellent

G = Good

\* Flocon Products are not effective against Mg(OH)<sub>2</sub> or Boron

### Using Flocon

#### Dosing Information

The amount of Flocon required to inhibit scale formation depends on the degree of supersaturation of the insoluble salts at the point of highest concentration in the system. The degree of supersaturation in turn depends on the concentration of the ionic species in the feedwater, the overall salinity of the feed, the temperature of the feedwater, the percentage of the feedwater recovered as permeate and the type of membrane used for the application.

Flocon Solution Concentration*%	Amount of Solution to be Injected per 1,000 Gallons of Feed Water, In Gallons	
	3 ppm	5 ppm
100	0.003	0.005
50	0.006	0.010
20	0.015	0.025
10	0.030	0.050

\* Use soft water or RO permeate to mix with Flocon.

#### Dose Method

Flocon should be added to a membrane system prior to the final cartridge filter. If media filtration or activated carbon is used, Flocon should be applied after these treatment stages.

Flocon should be delivered by dosing pump from a dilution tank, direct from the drum or from a bulk storage facility, into the feedwater at a rate that is determined by the size of the membrane system, the recommended dose rate and the delivery range of the dosing pump. It is recommended that the dosing pump be adjusted by the stroke length, while maintaining stroke frequency at a high level as possible to achieve even distribution of the Flocon in the membrane system feedwater.

#### CAUTION - Biological Activity:

Flocon contains a preservative that is effective up to a dilution of 1 part Flocon to 15 parts of system permeate water. General periodic cleaning of the dosing system is recommended as part of the planned maintenance program.

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