

Product Information & Procedures

Flocon 260 (AS-260)*

Thin Film Composite RO Membrane Alkaline Cleaner

GENERAL PRODUCT INFORMATION

- Flocon 260* is a multifunctional antiscalant and antifoulant for reverse osmosis systems, highly effective in controlling both crystallization and particulate fouling of membrane surfaces.
- Flocon 260* will control CaCO₃, CaSO₄, BaSO₄, SrSO₄, and CaF₂ scale deposition.
- Formulated to control soluble and insoluble iron.
- Flocon 260* is effective against silica fouling.
- Flocon 260* has compatibility approvals from membrane manufacturers.
- Flocon 260* is certified to ANSI/NSF Standard 60 for use in reverse osmosis systems producing potable water.

PRODUCT PROPERTIES

The following are typical properties for Flocon 260* and should not be regarded as specification limits for the product.

Appearance:	Pale, yellow liquid
Odor:	Slight
pH:	2.0 maximum
Solids Content:	33 to 37% w/w
Specific Gravity at 20/20°C:	1.150 to 1.165
Boiling Point Range:	100 to 102 °C
Freezing Point Range:	0 to -10 °C

THERMAL STABILITY

Thermogravimetric analysis and differential scanning calorimetry have shown that Flocon 260* is stable up to a temperature of 200 °C.

CHEMICAL REACTIVITY

Flocon 260* is not affected by chlorine or other oxidizing biocides under normal conditions of use. Flocon 260* may be used in membrane systems using chlorine and sodium metabisulfite.

APPLICATIONS AND DOSE LEVEL

Flocon 260* is an aqueous solution of an organic acid and is corrosive in its concentrated form. Corrosion resistant dosing equipment must therefore be used. Examples of suitable materials are 316L stainless steel, or plastics such as GRP, PVC, and PE. The recommended injection point is into the feedwater downstream of any filtration equipment and cartridge filters.

Flocon 260* is miscible with water in all proportions. It may be applied as the neat product, or as a solution in distillate. A minimum dosing solution strength of 10% w/w is recommended. Flocon 260* should be dosed continuously and proportionately to the feed water flow, to maintain the recommended dose level.

The dose level required is dependent on the quality of the feedwater and the saturation indices of the various scale forming species present in the concentrated brine. Proprietary computer software is used to calculate scaling indices and calculate optimum system recovery. Dose level projections and recommendations are available on request.

HEALTH AND SAFETY

Flocon 260* is an aqueous solution containing polycarboxylic acid. From results of acute studies, it is classed as non-toxic. A Material Safety Data Sheet (MSDS) is available on request.

REGULATORY

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TOXICOLOGY DATA

Acute Oral LD ₅₀ :	>2000 mg/kg
Eye Irritation (rabbits):	Irritant (EEC guidelines)
Skin Irritation (rabbits):	Non-irritant (EEC guidelines)

ECOLOGICAL DATA

96-hr LC₅₀ (rainbow trout): >350 mg/l

LOGISTICS

Classification:	Corrosive for conveyance; Irritant for supply.
Packaging:	HDPE 220L XL-rung Mauser drum 932×580mm height×dia Net weight: 230 kg; Gross Weight: 238.5 kg Flocon 260* is also available in 50-lb. containers.

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* Hazardous