

## Flocon® 260

### Premium antiscalant and antifoulant for reverse osmosis systems

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F260gpi

#### General Product Information

Flocon 260 is a multifunctional antiscalant and antifoulant for reverse osmosis systems, highly effective in controlling both crystallisation and particulate fouling of membrane surfaces.

Flocon 260 will control CaCO<sub>3</sub>, CaSO<sub>4</sub>, BaSO<sub>4</sub>, SrSO<sub>4</sub> and CaF<sub>2</sub> scale deposition.

Flocon 260 is formulated to control both soluble and insoluble iron and will effectively disperse particulates.

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.. A product specification is available on request.

appearance	pale yellow liquid
odour	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 oxidising biocides under normal conditions of use. Flocon 260 may be used in membrane systems using chlorine an sodium metabisulphite

#### Application and Dose Level

Flocon 260 is an aqueous solution of 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.

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 is available on request.

#### Regulatory

Flocon 260 is certified to ANSI / NSF Standard 60 for use in reverse osmosis systems producing potable water.

#### Toxicology Data

acute oral LD <sub>50</sub> (rats)	>2000 mg/kg
eye irritation (rabbits)	irritant (EEC guidelines)
skin irritation (rabbits)	non-irritant (EEC guidelines)

#### Ecological Data

96-hr LC <sub>50</sub> (rainbow trout)	>350 mg/l
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#### Logistics

classification	corrosive for conveyance irritant for supply
packaging	HDPE 220L XL-ring Mauser drum 932x580 mm height x diameter net weight 230 kg gross weight 238.5 kg

Flocon 260 is also available in bulk, semi-bulk and 25 kg net containers. Details are available on request.

## Patents

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