



# DYPURE 810

PREVENTIVE CHEMICAL TREATMENT FOR REVERSE OSMOSIS SYSTEMS



Our solution has been specially designed to optimize the performances of reverse osmosis systems when they are fed with **none chlorinated and bicarbonated water** (Hardness and/or mAlk > 15°f or 150 ppm CaCO<sub>3</sub>).

The principle of reverse osmosis consists in filtering water across a membrane whose porosity allows only the molecules of water to pass through, it is the perméat. All salts and other elements concentrates are kept by the membrane before being rejected, it is the concentrate.

The risks when the physicochemical parameters of water are changing by concentration of salts and suspended matters near the membrane, are **SCALING** and **FOULING** which have the following effect :

- Reduction of permeat flow rate,
- An increase of the energy cost.

The adapted formulation of our mixture limits this phenomena thanks to the simultaneous action of its dispersing and antiscaling agents which prevent the precipitation of alkaline salts with bicarbonates. Moreover, its properties protect membranes against the biofilm and other fouling. The life of membranes is so increased and the technical drop of performance related to these phenomena is considerably decreased.

Its usage allows to avoid the use of a softener before the system of reverse osmosis.

## BENEFITS

Solution ready to use without prior dilution, injected proportionally to the make-up (subservient to an impulse meter).

It allows to optimize the conversion rate of membranes and to reduce the frequencies of cleanings.

It respects the standards of rejection if used at recommended quantity.

## INJECTION

The injections of this solution will be done through a dosing point proportional to feed flow which is reducing the handling time around the membranes.

Although a preliminary study is necessary, our solution is typically injected at a dosage between 2 and 6 g/m<sup>3</sup>.

In order to assure a good dosage of the product an analyse kit, provided by us, can be used. Contact us for further information.

## HANDLING & STORAGE

It is recommended to take customary precautions while handling chemicals (gloves, glasses ...). Consult the Safety Data Sheet (SDS).

**The products must be kept away from frost.**

## CHARACTERISTICS

Physical state	Liquid
Color :	Yellowish to orange
Odor :	Odorless
pH :	2,0



## PACKAGING

it is available in 20, 210 and 800 kg, **non returnable plastic drums**.

For any other packaging please contact us.



**Note : Do not mix the undiluted product with other chemical compounds without consulting us first.**

The information and recommendations contained in this instruction manual are based upon our joint work with our customers and our current knowledge. They are provided merely as an indication and do not constitute an obligation of result. Date : 25/04/2023.



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