



## Kurita’s biofilm control agent for membrane systems: **Kuriverter IK-110.**

Biofouling is one of the most critical issues Reverse Osmosis (RO) systems are facing, especially in systems with high organic load like waste water recovery plants, sea water desalination plants, pharmaceutical industry or food industry among others.

Kurita developed **Kuriverter IK-110**, a biofilm control agent, which protects plants from biological impact on pre-treatment systems and the membranes themselves.

**Kuriverter IK-110** is added to the raw water tank in order to protect the whole RO system against biofouling with only one product. The concept of water treatment becomes simple and it has a direct impact on the reduction of cleaning process and related costs for manpower, chemicals and standby times, leading to a reduction of the Total Cost of Operation.



When applying **Kuriverter IK-110** the differential pressure decreases, the loss of flux is reduced, and salt rejection improves. The excellent results are proven by RO membrane autopsies confirming a significant decrease of biofouling on the RO membrane by the use of the new biofilm control agent.

### Customers’ benefits include:

- Unique & patented technology
- NSF listed
- Reduces differential pressure across the membrane
- Reduces pumping energy requirement
- Restores and maintains permeate flow
- Reduces CIP cleaning frequency
- Reduces Total Cost of Operation

The new treatment can be considered as an effective way to suppress adhesion of microbes to the surface of RO membranes and to break away any adhering microbes and their metabolic products. Even in case of contaminated feed water and insufficient pre-treatment systems the problem solving ability of the new slime control agent is coming along without additional capital investment cost.

Kurita’s qualified experts will be glad to advice personally and individually.

### About Kurita Europe

Kurita Europe is a subsidiary of Kurita Water Industries Ltd., headquartered in Tokyo (Japan). Kurita is one of the international market leaders in industrial water and process treatment. Our products and services for cooling water systems, boilers, membrane filtration units and drinking water inhibit scaling and corrosion, thus increasing the efficiency of systems, optimising processes, and saving water and energy. Over 3,500 patents are proof of Kurita’s innovative approach to a resource-saving consumption of water. Moreover, Kurita is one of only 30 worldwide enterprises listed in the Nature-Stock-Index (NAI).

More information about NAI: <http://www.nai-index.de>

### Setting new standards in chemical treatment.

Kurita sees continuous research as one of the most important tasks and is driven by the realisation that water, our most important resource, is in limited supply. All energy and competence is therefore invested in the effective usage of this precious commodity. Innovative technologies like Kuriverter IK-110 provide decisive impulses – with solutions for Kurita’s customers and the environment.

Kurita’s portfolio contains products awarded with the National Sanitation Foundation (NSF) quality seal of approval and which are suitable for the conditioning of RO-plants in the production of drinking water.

More information about NSF: <http://www.nsf.org/>

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