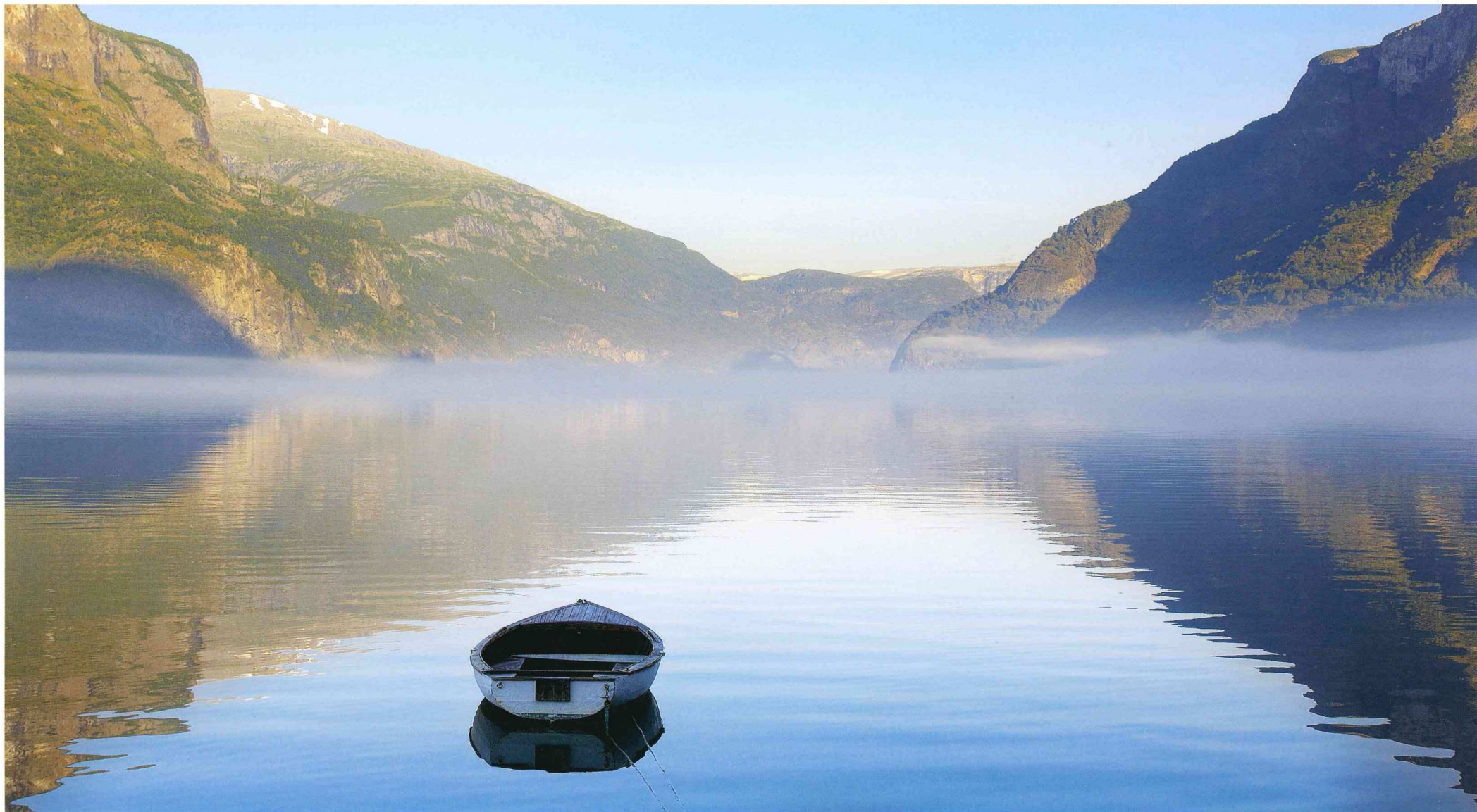


Kemira DesinFix® | Disinfection for your environment

kemira





Kemira – Superior chemistry knowledge, technology and products for water treatment applications globally

During its 90 years of history Kemira has gained extensive know-how and experience in the water treatment field. We have developed a range of leading technologies and chemical products that today serve water treatment industry in more than 40 countries. Our vision is to be a leading water chemistry company, and we strive constantly to achieve this goal through our dedication to excellence and commitment to our customers.

Leading solutions for water purification

Efficiency through innovation

Clean water is a global necessity; the essence for life and well-being. We at Kemira are committed to developing efficient and innovative technologies for the purification of wastewater. Our disinfection solutions enable compliance with legislation covering bacteria levels in effluents being discharged for water reuse applications. The state-of-the-art Kemira DesinFix® disinfection technology is designed to meet your requirements as well as those of the environment.

Complete disinfection technology

DesinFix is a complete disinfection technology including chemicals, equipment and related services. It meets the demands of waste water disinfection for water reuse applications such as:

- agricultural and landscape irrigation
- recreational applications (meeting the requirements of the EU bathing water directive)
- industrial water reuse applications such as disinfection of internal service water

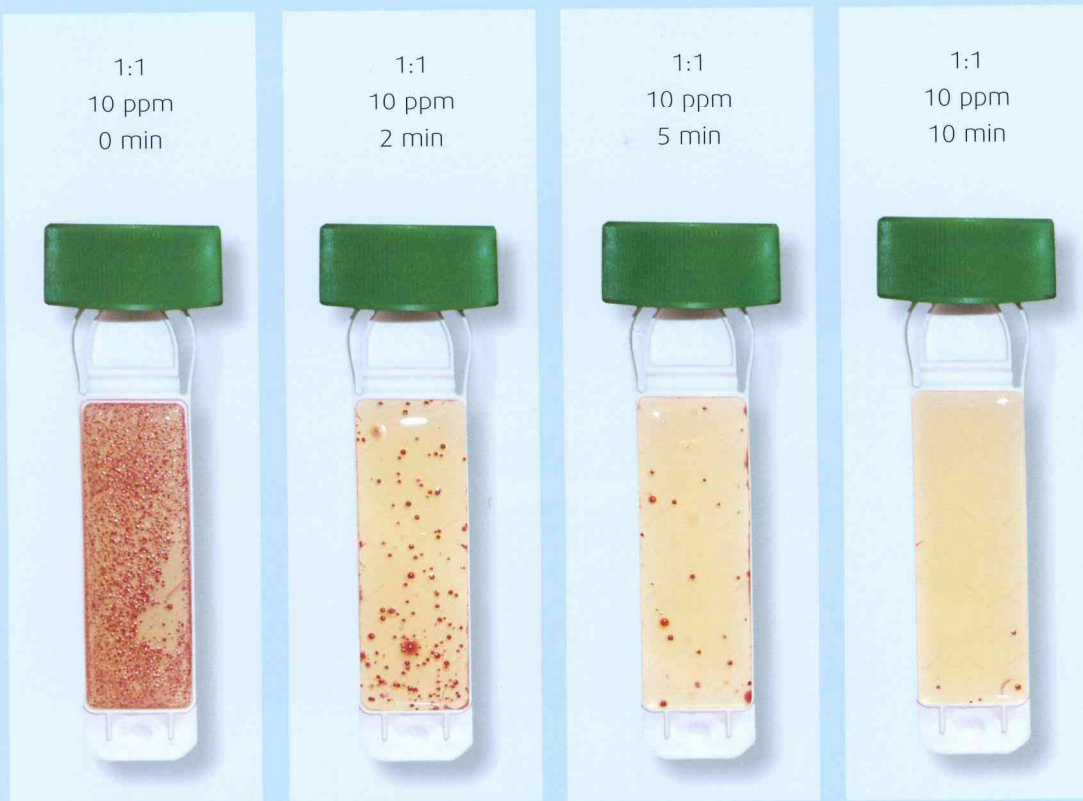


Disinfection for water reuse saves both water and the environment

Rapid and safe disinfection without toxic by-products

DesinFix is the ultimate technology in waste water disinfection. It is based on a mixture of formic acid and hydrogen peroxide. When accurately mixed, these two components form a highly efficient biocide DEX-135® that has performic acid as the active substance. Performic acid decomposes to form hydroxyl radicals that kill the bacteria.

It takes only a few minutes to disinfect the water and within an hour after dosing, the active substance can no longer be detected. DEX-135 breaks down into carbon dioxide and water, and leaves no toxic disinfection by-products..



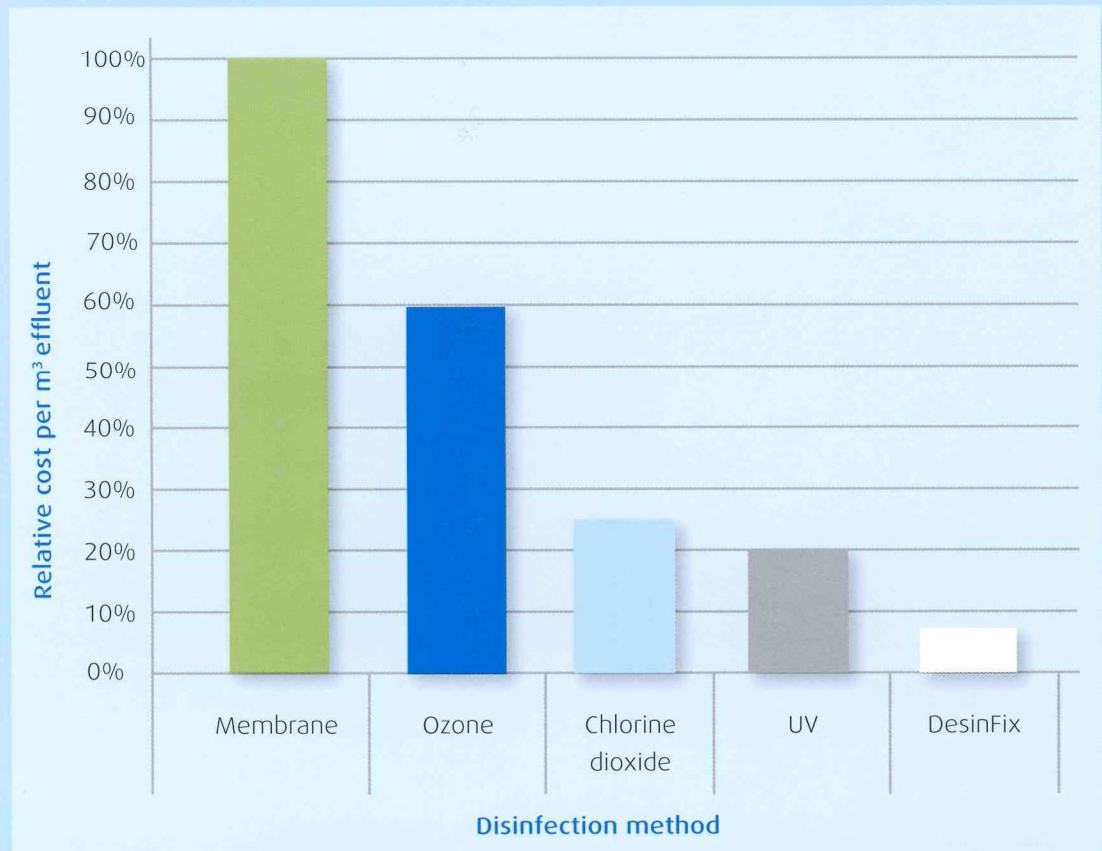
Bacterial reduction (red dots are bacteria) after 2,5 and 10 minutes exposure to 10 ppm DEX-135

Cost efficient and easy to operate

When it comes to costs, DesinFix has a distinct advantage. This complete, chlorine-free disinfection system is available at a total cost well below other alternative chlorine-free methods, thanks to its low energy consumption, competitive operational costs, minimal maintenance requirements, and a much lower investment cost compared to UV-light or ozone disinfection.

We offer to supply a complete, chlorine-free disinfection system at a total cost well below other alternative chlorine-free methods!

Relative total cost





A reliable technology with minimum space requirement

Secured disinfection in all conditions

Our DesinFix system is designed to handle rapidly varying flow rates, and to continue operating during power outages (<2-3 hours). Thus, it guarantees continuous water effluent disinfection even in difficult conditions that may shut down conventional systems.

Safe and secure mixing unit

The mixing unit contains a built-in reaction vessel, dosing pumps, the process control box and a safety flush system. Everything is neatly fitted into an easily accessible cabinet, providing safe and secure operation and measuring only 2x2x1 meters.

Easy installation with on-site chemical production

Automated mixing unit and minimal maintenance

The disinfectant DEX-135 cannot be stored or transported and is therefore produced on-site in a standardized mixing unit supplied by Kemira. A typical installation consists of two storage tanks for the chemicals, two transfer pumps and a fully automated mixing unit – all come with minimal maintenance requirements.

Full package for your convenience

Kemira DesinFix technology includes all the required chemicals, the equipment necessary to feed the chemicals, and handling of all installation and commissioning services. This is, of course, backed up by maintenance and technical support, and to ensure efficient and safe operation we also provide full operator training.

For more information about Kemira DesinFix please contact your Kemira representative or through desinfix@kemira.com





Kemira in brief

Kemira is a global 2.8 billion euro chemicals company that is focused on serving customers in water-intensive industries. The company offers water quality and quantity management that improves customers' energy, water, and raw material efficiency. Kemira's vision is to be a leading water chemistry company.

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