

INSTANT OXYDES®

THE SOURCE OF OXYGEN!

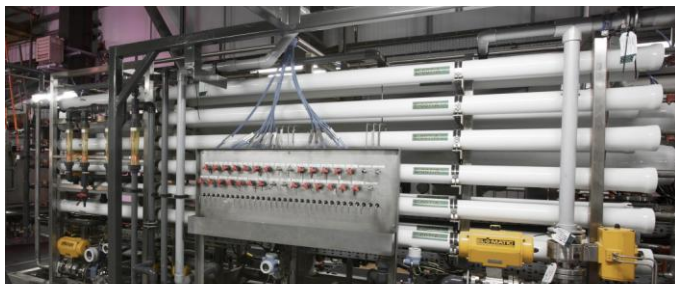
Disinfection and Sanitization of

INSTANT OXYDES®

Description:

INSTANT OXYDES® is an absolute white food grade biocide in odorless, crystalline powder form which, when added to water dissolves easily and releases hydrogen peroxide which is stabilized to work as very strong and powerful disinfectant. It has very wide range of applications and uses. Since it's approved for any food applications, it is used in drinking water applications, Resin and Membrane cleaning applications, disinfectant for all surfaces, barrels, pressure vessels, lines and pipes, tanks and complete range of Food and Beverage equipments. It is the best Biocide and Disinfectant for cooling towers and swimming pools.

- Ion Exchange Resins
- Membranes and Membrane Systems
- CDI Systems
- Purification Plants
- Disinfectant of all surfaces
- Disinfectant in paper manufacturing
- Food industry: Disinfecting and sterilizing installations
- Disinfecting containers and transport drums
- All kinds of Water Purification
- Washing and Cleaning
- Residential and Industrial dishwashers
- Chlorine substitute for
 - Residential drinking water
 - Swimming pools



Watch® GmbH

The Leading manufacturer of high quality dry disinfectant and dosing products

Setting the new trend in the industry with waterless INSTANT products!

www.watchwater.de

Producing INSTANT OXYDES®

INSTANT OXYDES® is made in a crystallization process from Stabilized Hydrogen Peroxide (SHP) in an agitated reaction vessel containing a mother liquor at a temperature from 15 to 30 °C with formation of **INSTANT OXYDES®** which precipitates out of the solution. The precipitated **INSTANT OXYDES®** powder is separated from the liquid and recovered as product.

INSTANT OXYDES® contains a stabilized based in tri-sodium salts with an amount of 1% of its own weight. **INSTANT OXYDES®** has the best oxidant and disinfectant qualities.

The Disadvantages of Ion Exchange

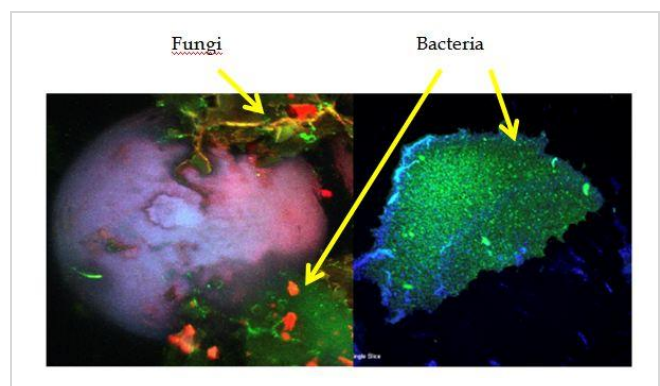
Bacterial Contamination

Ion exchange resins do not remove microorganisms like bacteria from the feed water but sometimes aid in the bacterial growth. The resin beds may accumulate organic matter which serves as a source of nutrient for continued growth of bacteria. When sterile water is required after the treatment, the demineralized water produced by the ion exchange treatment plant should be treated by heat, ultraviolet irradiation or very fine filtration. Ion exchange resins beds can also be treated with disinfectants such as formaldehyde but, not with heat or chlorine, as they will damage the resin.



Organic Contamination from the Resin

The ion exchange resin itself can sometimes become the source of organic contamination. The new ion exchange resin often has organic elements remaining in the resin beads after manufacturing. Such contamination of the resin may be treated by passing the treated water through an ultra filtration treatment plant.

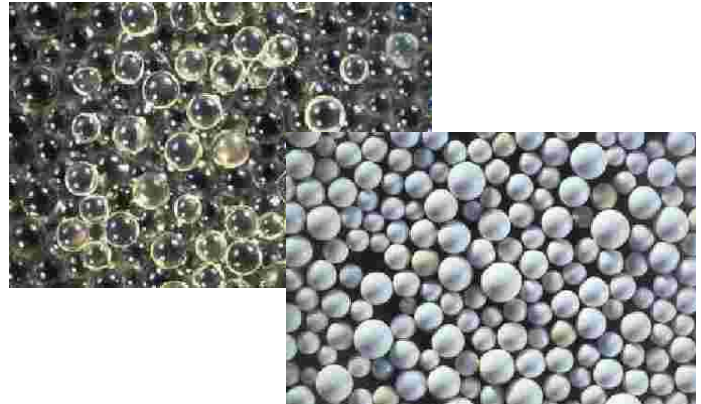


Continues on page 3...

The Disadvantages of Ion Exchange: continues from page 2...

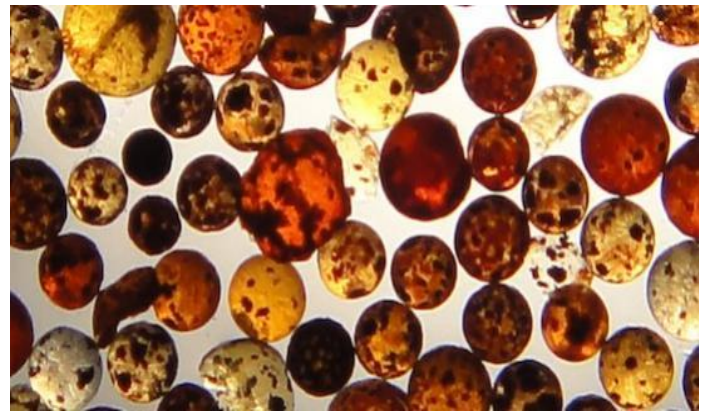
Calcium Sulfate Fouling

The most common regenerant (chemical used to recharge the resin) used for cation resin is sulfuric acid. Some extremely hard water contains high amounts of calcium, and when this calcium reacts with the regenerating sulfuric acid, it forms calcium sulfate as a precipitate during the regeneration process. This precipitate can foul the resin beads and can block the pipes in the vessel.



Iron Fouling

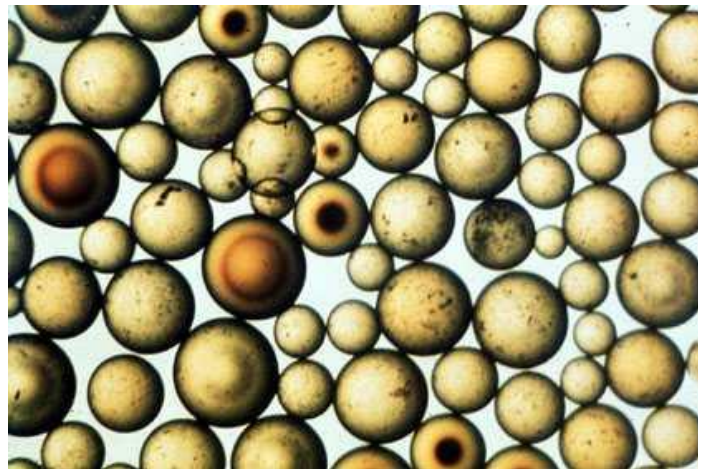
Feed water from the underground water bores has soluble iron in the form of ferrous ion. Small amounts of this iron is removed by the ion exchange softeners, but if this feed water comes in contact with air before treatment, the ferrous ions are converted ferric ions. These ferric ions precipitate as ferric hydroxide after reacting with water. This compound can clog the resin beads and affect the resin efficiency. This can even result in failure of the softener column.



Cation resin with Iron fouling

Adsorption of Organic Matter

Feed water from lakes and rivers usually contain high amounts of dissolved organic matter. The yellow or brown color of this feed water is due to the decayed vegetation and other organic matter present in it. These organic substances may be permanently adsorbed within the resin beads, resulting in reduced resin efficiency. The treated water quality is thus degraded. These organic contaminants can be removed prior to treatment with resin by treating the feed water with alum to precipitate the organic matter.



Organic fouling on resin



Directions of Use

Surface disinfection: Wash surfaces to remove any residue (ANY!) and thoroughly spray a diluted solution **100 grams** of **INSTANT OXYDES®** in **5 liters** (1.5 gallons) of water as 1:50 ratio in a barrel. after 5 minutes rinse with clean water spray.

Water disinfection: Dilute 50 grams of **INSTANT OXYDES®** to keep water disinfected for a long time and use it for any application. Since it is approved for use around food it is naturally the best choice for use in residential, industrial and all commercial applications.

Properties:

Name	INSTANT OXYDES®
Applications	Substitute to <ul style="list-style-type: none"> • Chlorine • Ozone • Chlorine dioxide • Liquid Hydrogen Peroxide • Strong Oxidants
Bulk Density	0.8 - 1.05 g/cm ³
Active Oxygen	17%
Moister	20% (Max.)
pH Value (3% solution)	10.2 (approx.)
Contains	Stabilizer*

* **INSTANT OXYDES®** is always sold as powder with Stabilizer to maintain the stability of the **Biocide** chemical.

INSTANT OXYDES® as 5 STAR

INSTANT OXYDES® also is one of the **5 STARS** disinfectant agent which can actively destroy:

★	Coli-form
★★	Staphylococcus
★★★	Hepatitis Bacterium
★★★★	All kind of Biofilm bacteria
★★★★★	Disinfection of Dental water lines and Dental hygiene equipment.



Note: "Dental water lines" the unit that remain untreated or unfiltered is unlikely to meet drinking water standard. **SPDental** commercial filter is designed to make the best quality water used in dental treatment.

Combined with **INSTANT OXYDES®** treatment or combination of **SPDental** and I-DOS will definitely remove any Biofilm from Dental water line.

Studies: All studies have shown that **INSTANT OXYDES®** is warranted to determine the most cost effective disinfectant and Biofilm cleaner.

Distributed by:

Company:

Manufactured by:

Watch® GmbH
A Water Company

Address: Fahrlachstraße 14
Mannheim
D-68165
Germany
Tel: +49 621 87951-0
Fax: +49 621 87951-99

URL: <http://www.watchwater.de>
Email: info@watchwater.de