



OXYDES

INSTANT CHEMICAL

MULTIPURPOSE OXIDIZER FOR DISINFECTION AND SANITIZATION

INTRODUCTION

OXYDES® is an absolute white food grade biocide in odorless, crystalline powder form that dissolves readily in water. It is a granular product that is environmentally friendly and provides a reliable source of alkaline hydrogen peroxide that is easy to use. **OXYDES®** contains a high active available oxygen content and produces hydrogen peroxide that is stabilized to function as a very strong and potent disinfectant. It has a wide variety of applications and uses because of its strong cleansing, bleaching, stain elimination, and sanitizing powers. Since it's approved for any food applications, it is utilized in drinking water applications, resin and membrane cleaning applications, disinfectant for all surfaces, barrels, pressure vessels, lines and pipelines, tanks, and the entire spectrum of Food and Beverage equipment. It is the best disinfectant and biocide for cooling towers and swimming pools.

OXYDES® is the best disinfectant which breaks down to oxygen, water and carbonates and the decomposition happens without the formation of any residues or toxic contaminants unlike chlorine, chlorine dioxide and potassium permanganate.



BENEFITS



Zero hazardous leftovers
Strong Oxidant



NSF/ANSI certified
Compatible with RO
membranes



Gentle cleaning
Non-irritating to skin and
eyes



Environmentally Friendly
Easy Application



Cost-effective
Seamless transportation
and storage



Long Shelf Life
Compatible with Various
Surfaces

OXYDES

APPLICATIONS

Disinfection and sanitization of Ion
Exchange Resins

Membranes and Membrane
Systems

CDI Systems

Purification Plants

Disinfection of all surfaces

Paper manufacturing

Food industry: Disinfecting and
sterilizing installations

Disinfecting containers and transport
drums

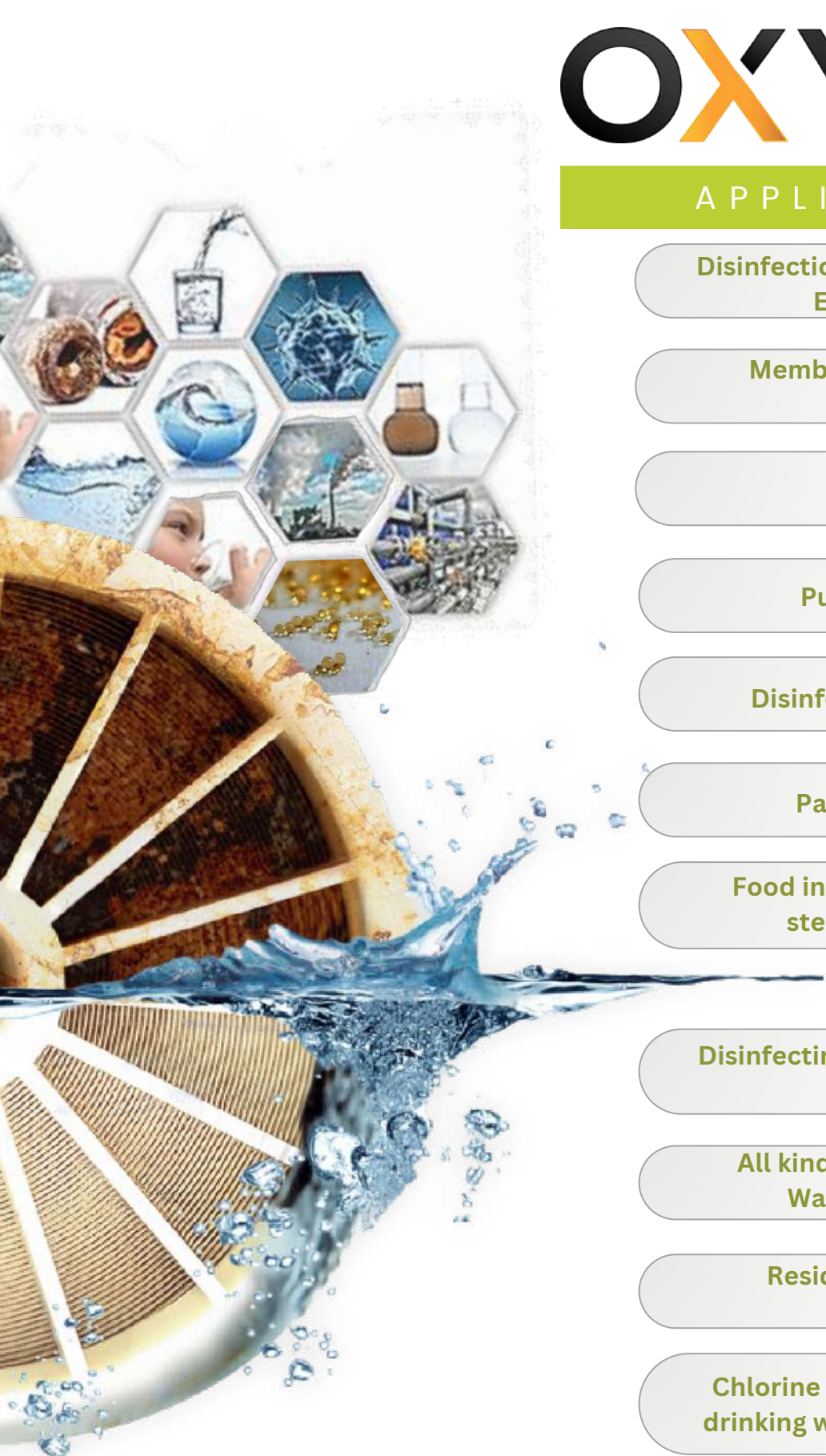
All kinds of Water Purification
Washing and Cleaning

Residential and Industrial
dishwashers

Chlorine substitute for Residential
drinking water and Swimming pools

Disinfection of Dental water
lines and Dental
hygiene equipment

Substitute for Liquid Hydrogen
Peroxide



ELIMINATES PSEUDOMONAS

OXYDES® destroys 99.999% of
pseudomonas in water

PACKAGING AND STORAGE

- **OXYDES®** is available in 1 kg, 2 kg, 5 kg bags and 60 kg drums.
- One 1 kg bag can make 20 kg of best quality scale and corrosion inhibitor including 13.5% hydrogen peroxide.



PRODUCT	QUANTITY PER Box	TOTAL WEIGHT (Kg)
OXYDES® 1 kg bag	20 bags	22
OXYDES® 2 kg bag	10 bags	22
OXYDES® 5 kg bag	4 bags	22
OXYDES® 60 kg Drum	1 drum	63

SPECIFICATIONS

Appearance	White granular powder
Bulk density	0.8 - 1.05 g/cm ³
Active Oxygen	17%
Moister Content	20% (Max.)
pH Value (3% solution)	10.2 (approx.)
Storage Temperature °C	-27°C to +42°C

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

THE MANUFACTURING PROCESS

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.

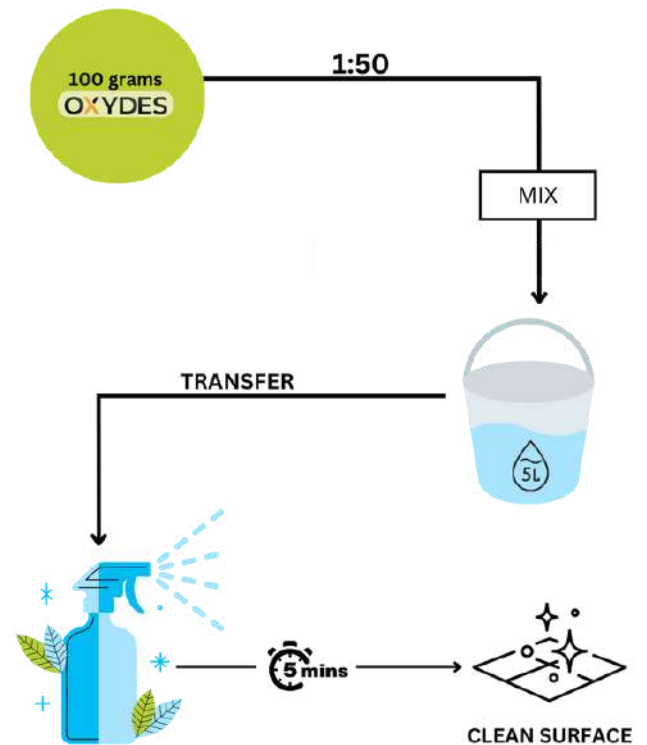
A powder precipitates out of the solution during the process. This precipitated powder is separated from the liquid and recovered as product which is called **OXYDES®**. Our product contains stabilized tri-sodium salt that constitutes 1% of its own weight. It has the best oxidant and disinfectant qualities.

APPLICATION PROCEDURE / DOSING

In water treatment, for disinfection and oxidation, **OXYDES®** is generally applied in a 3-5 % solution.

For surfaces (as shown in picture on the right) a 2% solution should be applied for a minimum of 5 mins to effectively wipe off all the pathogens, bacteria, viruses, etc.

For disinfection of water, 5% solution of OXYDES should be dosed to the water at the rate of 20-120ml/m. This will effectively disinfect water for an extended period, making it suitable for various applications.



SURFACE CLEANING PROCEDURE

The cleaning and sanitization of filter media and membranes is also extremely easy with **OXYDES®**. The existing cleaning equipment (CIP) can conveniently be used for alkaline cleaning of various types of membranes and filter media.

CLEANING OF MEMBRANES

For alkaline cleaning of ultrafiltration and microfiltration membranes, Oxydes solution is recommended

Apply **OXYDES** Using
Cleaning Equipment

2-3% STRENGTH

Recirculate the
Solution

30-60 MINS

SANITIZATION OF FILTER MEDIA

- ① Backwash the Filter Bed
15-20 MINS
- ② Apply **OXYDES** evenly & cover the entire bed
1 % STRENGTH
- ③ Let it Soak
30 - 60 MINS
- ④ Backwash Again until water runs clear
15 - 30 MINS
- ⑤ Rinse!!
5 BED VOLUMES BV

WE STRONGLY ADVOCATE ENVIRONMENTAL HARMONY

The products used in the formulation does not cause any environmental problems. OXYDES® contains No Phosphates, No Phosphonates, No EDTA and No NTA. OXYDES® contains NO Toxic products and doesn't produce any Disinfection by-products (DBP).



2 x 20 kg Boxes of OXYDES® are equivalent to **800 Liters** of equivalent product in canisters. It saves a significant amount of money from freight, shipping containers, drums, storage, handling, and labour costs and so our product is extremely environment and budget friendly.

We are continuously setting higher benchmarks to confront climate change and resource scarcity, ultimately nurturing an improved quality of life. We wholeheartedly advocate and actively promote sustainability as a core principle in all aspects of our endeavors.

OXYDES

Unleash the Power of Oxidation



CONTACT US

WATCH WATER GmbH
Fahrlachstr. 14,
68199 Mannheim,
Germany

Tel: +49 (0) 621 87951 51 0
Fax: +49 (0) 621 87951-99
Email: info@watchwater.de
Website: www.watchwater.de