



# 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

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## 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	<b>20 bags</b>	<b>22</b>
OXYDES® 2 kg bag	<b>10 bags</b>	<b>22</b>
OXYDES® 5 kg bag	<b>4 bags</b>	<b>22</b>
OXYDES® 60 kg Drum	<b>1 drum</b>	<b>63</b>

### SPECIFICATIONS

Appearance	White granular powder
Bulk density	0.8 - 1.05 g/cm <sup>3</sup>
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.

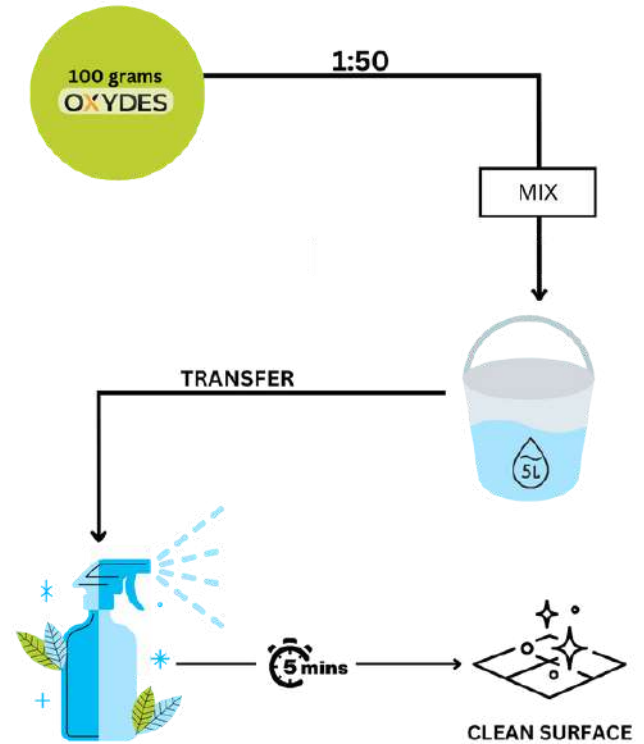
A powder precipitates out of the solution during the process. This precipitated powder is separated from the liquid and recovered as product which is called **OXYDES®**. Our product contains stabilized tri-sodium salt that constitutes 1% of its own weight. It has the best oxidant and disinfectant qualities.

**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.

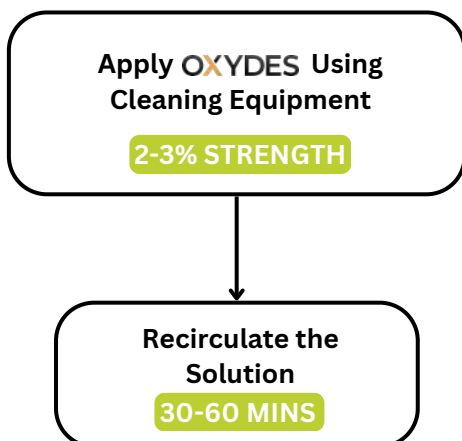


**SURFACE CLEANING PROCEDURE**

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



**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).



Two **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.



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## Unleash the Power of Oxidation

CONTACT US

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