



**PureOx<sup>TM</sup>**  
**CHLORINE DIOXIDE**

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**DISINFECTION MADE  
ECO-FRIENDLY, SAFE &  
EASY**

**Pure Water Enterprises Pvt Ltd.**

308 Matharu Arcade, Subhash Road,  
Abv Axis Bank, Behind Garware House,  
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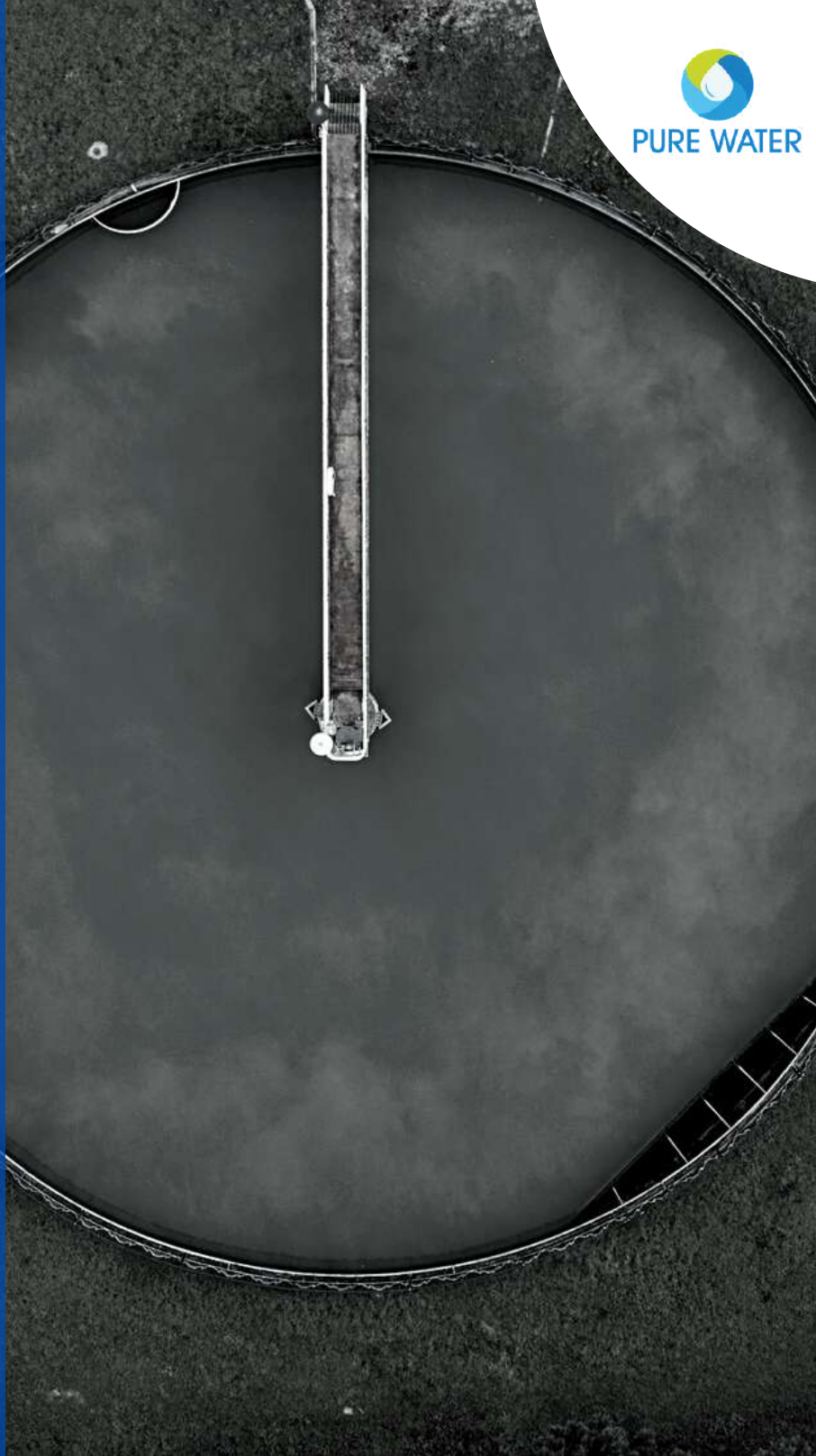
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# ABOUT US

- Leader in water and wastewater technologies in Western India
- 1500+ satisfied customers over a span of 24 years
- Problem solving work culture
- Advanced R&D facilities harboring innovative solutions



## WHAT IS PureOx?

- PureOx Chlorine Dioxide Powder is a very powerful disinfectant for water treatment.
- It is supplied as a two component product: Component A and Component B. It comes in a 1 kg packet.
- It is a two component powder kit delivering 99.99% pure 0.5% chlorine dioxide solution.
- As a concentrated ClO<sub>2</sub> solution, it gives **5000 ppm** in a solution of **50 liters** from **1kg** of the product.
- It is a perfect replacement to harmful chlorine, resulting in an environmental friendly approach.

# WHY PureOx?

Chlorine Dioxide has been proven to offer a reduced whole-life cost when compared with competing technologies, such as chlorination, ozone, and other hypochlorite treatments, due to its powerful mode of action, low dose rates, and superior environmental performance.

## **LEAVES NO HAZARDOUS RESIDUES**

It doesn't form THM's, Haloacetic acids and other organic compounds like chlorine which are cancer causing and are known as carcinogens.

## **HIGHER OXIDISING CAPACITY**

Chlorine dioxide has a higher oxidising capacity as compared to other biocides making it more effective. It has 2.6x the capacity of chlorine

## **LESSER CONTACT TIME**

It effectively kills all pathogens in water with a relatively short CT (Contact Time) as compared to chlorine.

## **HIGH SOLUBILITY IN WATER**

One of the most important qualities of chlorine dioxide is its high water solubility. It is approximately 10 times more soluble in water than chlorine.

## **BROADER pH RANGE**

Chlorine dioxide is effective over a pH range of 2-12, with no loss of activity. On the other hand, chlorine is effective up to only 8.5pH.

## **EFFECTIVE AT LOW DOSAGE**

The process of "selective oxidation" allows Chlorine Dioxide to be targeted where it is needed most, disinfecting areas quickly and at low dose rates compared to chlorine and other biocides.

## **DESTROYS BIOFILM AT SOURCE**

Chlorine dioxide is extremely effective at destroying biofilm which hampers the water treatment process.

## **LESS CORROSIVE**

Chlorine Dioxide has a lower oxidation potential and does not hydrolyse to form an acid, and therefore is less corrosive than chlorine.

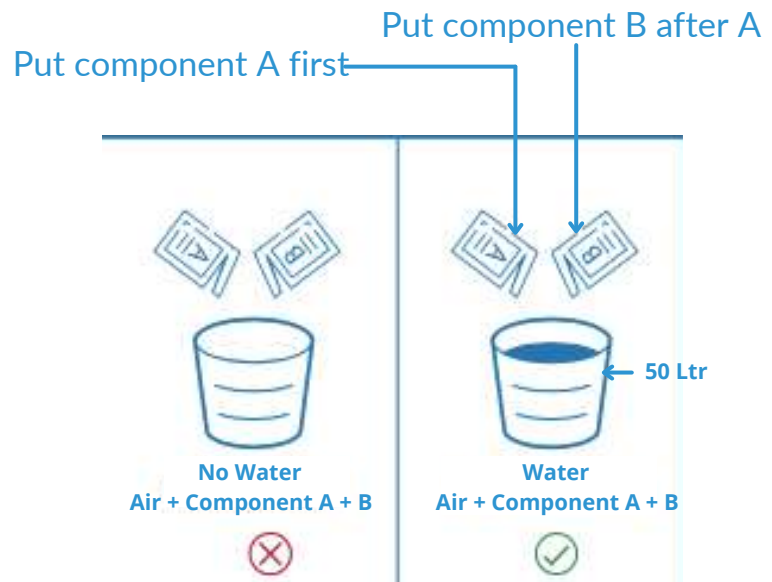


# PREPARING THE SOLUTION

(From 1kg PureOx)

**COMPONENT A** & **COMPONENT B**

To be used together for a  
**50 Ltr solution**  
**(5000 ppm)**



## USAGE

- We supply two component powder kit in well packed & sealed pouches : Component A (PureOx) and component B (Activator) along with a user guide.
- Dosing capacity of 1 litre of solution is calculated as:

**PureOx 0.5% = 5 gram ClO<sub>2</sub> per liter = 5000 ppm**

**$\frac{\text{Volume of water to be disinfect} \times \text{dosage rate}}{5000 \text{ ppm}} = \text{Activated Clo}_2 \text{ solution}$**

# INDUSTRY APPLICATIONS



FOOD & BEVERAGES



COOLING TOWER



DRINKING WATER



PAPER & PULP



WASTEWATER TREATMENT



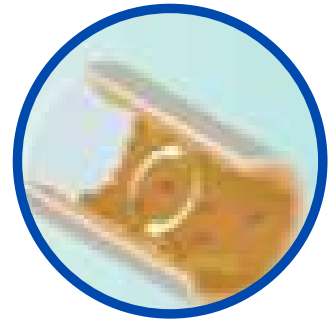
POULTRY



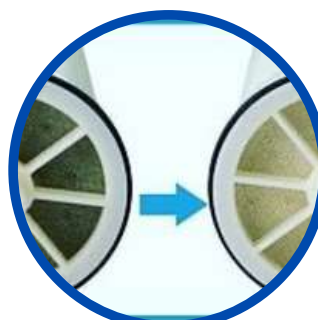
DAIRY



SHRIMPS



BIOFILM REMOVAL



MEMBRANE CLEANING



ODOR REMOVAL



SANITIZATION