



ADVANCED BACTERIAL CONTROL



## DAIRY FARMING

INCREASING YOUR PRODUCTIVITY  
THROUGH EFFECTIVE WATER TREATMENT



Innovational Water Solutions, Inc.

[www.iwatergroup-us.com](http://www.iwatergroup-us.com)



## WHAT IS XZIOX® ?

**IWS** IS THE MANUFACTURER OF A HIGHLY EFFECTIVE, PATENTED WATER TREATMENT SOLUTION CALLED **XZIOX®**, WHICH IS A TRIED AND TESTED, HIGH QUALITY SOLUTION FOR WATER ISSUES WITHIN THE LIVESTOCK SECTOR.

**IWS** provides bacterial control for all water sources such as reservoir, river, well and mains. Our patented product **XZIOX®** is highly concentrated with no by-products. This makes **XZIOX®** highly effective against commonly found bacteria such as E.Coli, Pseudomonas and Staphylococcus which can often harm the health of the cattle and have an adverse effect on production. **XZIOX®** is also a viricide, algicide, fungicide and bactericide and can effectively eliminate all stages of biofilm as it is able to penetrate the deep cell walls where biofilm is present.

**XZIOX® REMOVES**  
**99.99%**  
**HARMFUL ORGANISMS**  
**INCLUDING:**

- E-COLI
- TVCS
- PSEUDOMONAS
- SALMONELLA
- COLIFORMS

**XZIOX®** treats all water sources including:

- WELL WATER
- CITY WATER
- RESERVOIR
- RAIN WATERHARVEST

## ADDITIONAL BENEFITS

- INCREASED MILK YIELDS
- REDUCTION IN MASTITIS
- LOWER SOMATIC CELL COUNTS
- REDUCTION IN SCOURS
- ELIMINATION OF ALGAE IN TROUGHS
- LOWER MORTALITY RATE





## XZIOX® ELIMINATES BIOFILM WITHIN THE PIPEWORK:

Biofilm exists in every untreated system (as well as those that are treated with non-eradicating chemistries). **XZIOX®** oxidizes both hardened and loose biofilm and then eliminates the bacteria colonies, therefore preventing the biofilm from re-forming. Biofilm in particular has been linked to poor livestock health and has been identified in recent studies to be the most important water quality issue to challenge livestock farming. **XZIOX®** treats all stages of biofilm, unlike some other treatments.



	XZIOX®	HYDROGEN PEROXIDE (H <sub>2</sub> O <sub>2</sub> )	FORMIC ACID	ORGANIC ACID	SODIUM HYPOCHLORITE, CHLORINE, BLEACH
DECOMPOSITION PRODUCTS	NaCl + H <sub>2</sub> O	H <sub>2</sub> O + O <sub>2</sub>	Carbon Monoxide	Other Acids & Alkalis	Chlorine, Chlorinated Hydrocarbons, Chloramines Chloroforms
LEAVES RESIDUES ON PRODUCE	NO	NO	YES	Yes	YES
SPECIFIC TO TARGETING BACTERIA	YES	NO	NO	NO	NO
OPERATE IN TURBID WATER	YES	YES (will oxidize all organic matter)	YES	YES	YES (pH Correction Required)
GENERAL OXIDANT	NO	YES	YES	NO (lowers pH)	YES
HAZARDOUS IN USE	NO	YES	YES	NO	YES
CORROSIVE	NO	YES	YES	NO	YES
PRODUCE HARMFUL BY-PRODUCTS	NO	YES	YES	NO	YES
100% UTILIZATION FOR BACTERIA KILL	YES	NO	NO	NO	NO
WILL PRODUCE CHLORINE	NO	NO	NO	NO	YES

# FAQS (FREQUENTLY ASKED QUESTIONS)

## ➤ WHY INVEST IN TREATING WATER FOR CATTLE?

Clean water is involved in every aspect of cattle metabolism and is the most important nutrient in their diet. It plays an important role in regulating body temperature, digesting food and eliminating body wastes. A reduction in water can lead to a decrease in feed intake and poor performance. Milk contains up to 88% water, it is imperative that the water your cows drink is free of bacteria that could potentially spoil the milk and harm the productivity of your herd.

## ➤ HOW DOES XZIOX® KILL BACTERIA ?

**XZIOX®** kills bacteria by attacking their critical cell physiological functions; this includes the interruption of protein synthesis. It also modifies the permeability of the cell membrane. **XZIOX®** penetrates the protective layer of the cell then deactivates the pathogen from the inside out.

## ➤ IS XZIOX® CORROSIVE?

No. **XZIOX®** is pH neutral and non-corrosive to pipework, fittings, tanks and drinker lines.

## ➤ HOW MUCH WILL XZIOX® COST?

**IWS** understands the individual needs of each site, this is extremely important as each site will have different requirements. To be able to provide you with a precise costing, trained **IWS** Engineers will conduct a site survey. If you would like to arrange a site survey please contact **IWS**.



APPROVED BY THE SECRETARY OF STATE  
FOR USE IN  
PUBLIC WATER SUPPLIES

Certified by 

APPROVED UNDER REGULATION  
31 OF THE WATER SUPPLY  
REGULATIONS 2000

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**XZIOX**  
National Coverage:  
Over 500 Installations  
Nation Wide