



TwinOxide[®]

Total Water Disinfection

TwinOxide[®] **CLO**₂ Solution

MADE SIMPLE, SAFE & EFFECTIVE

TWINOXIDE.US

WHAT IS TWINOXIDE®?

TWINOXIDE® IS UNIQUELY EFFECTIVE

Due to purity, consistency, reliability, stability, and proven stable residual.

GIVING THE ABILITY TO BRING:

THM's / HAA's to zero (0).

TWINOXIDE® DELIVERS PROVEN RESULTS!

Others fall short of promises and claims.



MICROBIOLOGICAL AND CHEMICAL ADVANTAGES

POWERFUL OXIDIZING AGENT WITH HIGH RESIDUAL DISINFECTION CAPACITY

EFFECTIVE AGAINST ALL WATERBORNE MICROORGANISMS (SPORES, BACTERIA, VIRUSES, PROTOZOA, FUNGI, YEAST AND ALGAE)

VERY SHORT CONTACT TIME (SEE CT VALUES BELOW)

LONG RESIDUAL DISINFECTION IN DISTRIBUTION SYSTEMS (OVER 42 DAYS)

HIGH EFFICIENCY IN THE REMOVAL OF IRON AND MANGANESE COMPOUNDS

DESTROYS ALGAE-RELATED TASTE AND ODOR ISSUES

HIGHER YIELD (UP TO 260% MORE OXIDATION OUTPUT COMPARED TO CHLORINE)

EFFECTIVELY REMOVES BIOFILMS

EFFICIENT WITHIN A BROAD PH BANDWIDTH (PH 4 TO PH 11)

DOES NOT MODIFY THE PH LEVEL

NO BUILD-UP OF DISINFECTION RESISTANCE IN ANY MICROORGANISMS

ECONOMIC ADVANTAGES

MORE DISINFECTION, LESS CHEMISTRY

NON CORROSIVE AT USED CONCENTRATIONS

NO ADDITIONAL CHEMICALS (E.G. PH-LEVEL STABILIZERS) REQUIRED

LESS TRAINING, CERTIFICATION AND RECERTIFICATION OF QUALIFIED PERSONNEL

LOW TRANSPORTATION AND STORAGE COST

SAFE HANDLING AND STORAGE

CONTACT TIME VALUE FOR A 99.9% KILL

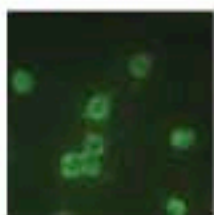


Bacteria

ClO₂ 0.19 ppm / min

Cl₂ 3.3 ppm / min

NH₂Cl 278 ppm / min



Cryptosporidium

ClO₂ 40 ppm / min

Cl₂ NOT KILLED

NH₂Cl NOT EFFECTIVE

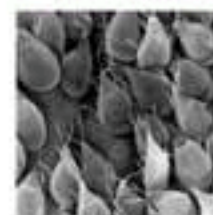


Viruses

ClO₂ 2.8 ppm / min

Cl₂ 8.0 ppm / min

NH₂Cl 430 ppm / min



Giardia

ClO₂ 7.3 ppm / min

Cl₂ 41 ppm / min

NH₂Cl 1000 ppm / min

HOW IS TWINOXIDE® DIFFERENT?

2 PART POWDER COMPONENT PRODUCING 3000PPM ClO₂

There is a significant chemical difference between TwinOxide®, Chlorine, Chloramines and traditionally generated Chlorine Dioxide.

TWINOXIDE® CONTAINS 0% CHLORINE

Chlorine produces disinfection by-products such as THM's, HAA's and several other carcinogenic compounds. Chloramines produce even more toxic carcinogenic by-products including distribution system bio fouling, causing high cost of directional flushing.

Chlorine poisons bacteria where as TwinOxide® oxidizes all waterborne pathogens without a possibility of disinfection resistance (Legionella, Nora, and other slime forming bacteria). TwinOxide® kills the full spectrum of bacteria, viruses, fungi, molds and spores. Compared with generated Chlorine Dioxide, TwinOxide® is stable, removes biofilm from distribution systems and does not create any THM's and HAA's.



HEALTH & ENVIRONMENTAL ADVANTAGES

MARINE FRIENDLY

ECO-FRIENDLY, NO UNDESIRABLE RESIDUES

EFFECTIVE AGAINST AIRBORNE PATHOGENS WHEN 'MISTED'

DOES NOT GENERATE TOXIC BY PRODUCTS OR CARCINOGENIC PROPERTIES

DOES NOT PRODUCE BROMATE (LIKE OZONE)

UNLIKE CHLORINE, TWINOXIDE® DOES NOT REACT WITH AMMONIA AMMONIUM

DELIVERY, STORAGE & DOSING

5 YEARS GUARANTEED SHELF LIFE IN POWDER FORM

CONSISTENT AND STABLE SOLUTION

EASY TO APPLY, STANDARD INDUSTRIAL DOSAGE EQUIPMENT

OVER 42 DAYS BIOCIDAL LIFE WHEN ADDED TO WATER

PRODUCES 99.9% ClO₂

SIMPLE CONTROLLED CONSISTENT DOSING

TWINOXIDE® APPLICATIONS



MUNICIPAL DRINKING AND
WASTEWATER DISINFECTION



AGRICULTURAL IRRIGATION



LIVESTOCK INDUSTRY



MARITIME INDUSTRY



POST HARVEST PRESERVATION



MICROBIOLOGICAL CONTROL
OF OIL WELLS AND BORES



RV & BOAT WATER STORAGE



BEVERAGE INDUSTRY



HOSPITALS



FISH INDUSTRY



MEAT PROCESSING



POULTRY INDUSTRY

TwinOxide® combines multiple functions such as biocide, slimeicide, algaecide, sporicide, fungicide and corrosion inhibitor. And also: Microbiological control of cooling and process water, THM control in pools and spas, sulphide destruction pipeline and tank cleaning, removal of H₂S, controls and reduces the biological load of effluent water, phenol oxidation and cyanide destruction, RO filter anti-fouling, carcass spraying, chilling water disinfection, as well as iron and manganese removal.

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