



Cooling Tower
Water Treatment



Potable Water
Treatment



Paper and Pulp
Industry



Pipe and Tank
Cleaning

The NEW Standard In Water Disinfection

GreenOxide→



Landscaping



Agriculture



Livestock and
Poultry Industry



Aquaculture Industry



Food Processing



Food Industry



Techkem Water Technologies Sdn. Bhd. (1239518-U)

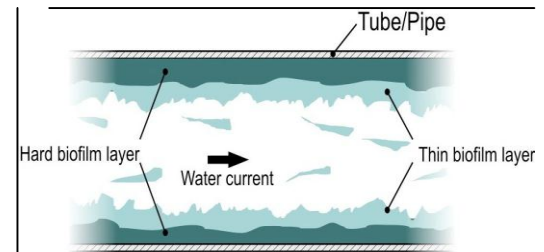
THE NEW STANDARD IN WATER DISINFECTION A SAFE & ENVIRONMENTALLY FRIENDLY PRODUCT

GreenOxide is a very powerful disinfectant for water, it uses 2 component method to generate a 100% "PURE" Chlorine Dioxide (ClO_2) solution. It is a perfect replacement for the dangerous Chlorine towards to our healthier Green Environment vision.

GreenOxide, an innovative product by **Netherland**, with technical and engineering backup to Malaysia for better product performance and cost effectiveness.

Basically, **GreenOxide** offers a stronger disinfectant as replacement for all chlorine users. **Its successfully control of microbial contamination of water system is the characteristic to remove and prevent the growth of biofilm in water system without production of THM.**

GreenOxide is now available in 0.45%, 0.75% and 1% of pure Chlorine Dioxide solution, which give concentration of 4500ppm, 7500ppm and 10000ppm respectively.



Biofilm Growth



Main Advantages:

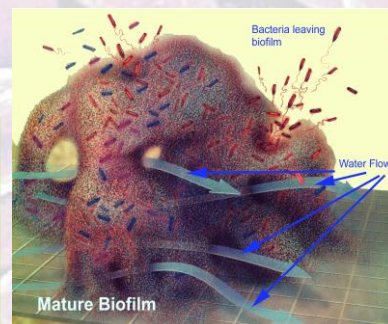
- It's a Safe Product to health effects and environmental impact.
- Not Corrosive, No harmful by product and end product.
- Provide a 100 % disinfection effect in the water system.
- Applicable and working independent with in a wide range of pH from 4 – 10.
- Easy to apply as its' in a liquid solution form.
- No Big Investment needed, it can be apply and control with a metering dosing pump via a chlorine dioxide controller.
- **As it is highly selective**, it provides 10 times more disinfection power than chlorine.
- Stronger and faster biocidal function compared to Active Chlorine.
- Easy to handling and store.
- Broad range of applications.
- A good oxidation agent for Iron and Manganese, a simple solution without compromising **Regulatory** compliance.
- Optimized overall operation efficiencies, including improved coagulation, reduce turbidities, Improved particulate remover and prevent formation of THMs and HAAs.

The GreenOxide Disinfection Method:

GreenOxide is 100% effective against all water-borne micro-organisms and spore forming bacteria (Bacteria, Viruses, Protozoa, Fungi, Mould, Parasites, larval eggs, Sediment etc. It's many times stronger disinfectant than Chlorine
It's complies with European Union and US regulations for use a disinfectant for drinking water.

CHLORINE does NOT remove both Biofilm and Biofouling

1. Some smart micro-organisms HIDE between the wall of the system and the biofilm, untouchable by other disinfectants
2. Legionella is such a micro-organism (it's deadly!)
3. Clean water from the source can be contaminated before it reaches the outflow point (tap)
4. GreenOxide requires smaller CT value (contact time and dosage to kill harmful organisms
5. GreenOxide removes and prevents re-growth of both soft and hard layer of the Biofilm and thus kills all micro-organisms

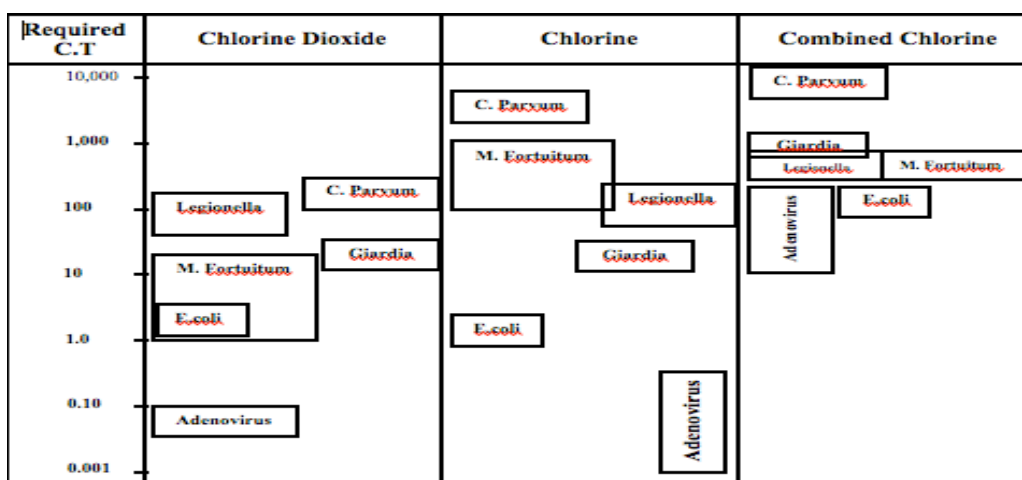


Other applications

- Cooling tower water treatment
- Livestock and poultry farm
- Aquatic product breeding
- Paper and pulp
- Container facilities
- Food processing
- Environmental disinfection

GreenOxide Equipment consists of :-

- Chemical Metering Dosing Pump
- Automatic chemical dosing control system via chlorine dioxide analyzer
- Preparation and dosing tank



- The above diagram shows required CT to achieve 99.9% virus removal by ClO₂, Cl₂ and combined chlorine.
- ClO₂ requires smaller CT value for disinfection purpose if compare with Cl₂ and combined chlorine.

Advantages of GreenOxide:

- Powerful oxidant that does not require well trained personnel for handling it
- In liquid form, easy preparation
- Does not require large investment on generator or other safety system
- Perfect replacement for Chlorine in various industries as it does not produce THM
- Not as corrosive as Cl₂
- Require only small dosage
- CT is smaller than Cl₂ and combined chlorine
- Effective against full spectrum of bacteria and viruses
- Broad pH range

ABOUT TECHKEM WATER TECHNOLOGIES SDN BHD

TTECHKEM WATER TECHNOLOGIES SDN BHD, a water treatment company specializes in design and deployment of innovative water and wastewater treatment solution for industrial and municipal applications. Techkem Water Technologies Sdn. Bhd. adopted world class water and wastewater solutions in deploying treatment systems for drinking water, water reused and waste water open discharging in accordance with environmental regulations. Techkem Water Technologies Sdn Bhd clients ranging from the water works, pulp & paper, food, textile, rubber gloves, chemical and process water reused industry sectors who have been using the flotation, clarification and filtration technology solutions based on proven processes and innovative designs.

Visit us at: www.techkemwater.com.my

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